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THE SALINITY INTRUSION IN THE CAMPBELL RIVER ESTUARY: SALINITY, TEMPERATURE AND CURRENT OBSERVATIONS 1984-1986

by

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Sidney, B.C.

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Canadian Data Report Of Hydrography and Ocean Sciences

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Les établissements des Sciences et levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses séries de rapports en décembre 1981. Une liste complète de ces publications figure dans le volume 39, Index des publications 1982, du *Journal canadien des sciences halieutiques et aquatiques*. La série actuelle a commencé avec la publication du rapport numéro 1 en janvier 1982.

Canadian Data Report of
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ABSTRACT

Ages, A.B., F.A. Dobbs, C.D. McAllister, 1990. The Salinity Intrusion in the Campbell River Estuary: Salinity, Temperature and Current Observations, 1984–1986. Can. Data Rep. Hydrogr. Ocean Sci. 83(1, 2).

As part of a study to assess the results of recent efforts to rehabilitate the Campbell River Estuary, detailed measurements of currents, salinities and temperatures were made from 1984 to 1986. The data are presented in tables and in profile plots.

Keywords: Campbell River Estuary, tides, currents, salinities, temperatures.

RESUME

Ages, A.B., F.A. Dobbs, C.D. McAllister, 1990. The Salinity Intrusion in the Campbell River Estuary: Salinity, Temperature and Current Observations, 1984–1986. Can. Data Rep. Hydrogr. Ocean Sci. 83(1, 2).

Dans le cadre d'un projet récent pour évaluer les résultats des efforts sur la remise en état de l'estuaire de la rivière Campbell, des mesures détaillées des courants, des salinités et des températures ont été effectuées de 1984 à 1986. Les données sont présentées dans des tableaux et sur des profils verticaux.

Mot-Clés: estuaire de la rivière Campbell, marées, courants, salinités, températures.

ACKNOWLEDGEMENTS

We acknowledge the skillful assistance of Tom J. Brown and Bev A. Bravender in collecting the data and their cheerful endurance of the many long hours spent in sometimes inclement weather.

Data processing, tabulation and computer plotting were carried out by Di Tran and Georg Jorgensen under supervision of Anne Woollard and we thank them for their excellent work.

Finally, our thanks to Rosalie Rutka for the compilation of the data records and to Sharon Thomson for her advice and assistance in getting these records published.

INTRODUCTION

The Campbell River Estuary, located on the east coast of Vancouver Island, covers an area of about 0.7 km^2 at a high tide. Apart from an inflow from a small tributary, the river discharge is regulated by a generating station about four kilometres above the estuary's upstream boundary. At the seaward entrance, the tides are mixed, mainly semi-diurnal, with a range of 4.6 m at a large tide.

The estuary's productivity as a significant rearing area for juvenile chinook salmon has been jeopardized for many years by industrial activities. When B.C. Forest Products Ltd., now Fletcher Challenge, proposed to modernize its log handling operation in the area by changing the receiving and sorting facilities from a booming ground to a dryland log sorting area, the company agreed to rehabilitate the area which had previously been used for log handling. This project was carried out as a pre-condition of the Department of Fisheries and Oceans' acceptance of the proposed changes. Upon the completion of these measures, the Pacific Biological Station in Nanaimo undertook a long-term program to examine the biological implications. To support this program, the Institute of Ocean Sciences at Patricia Bay joined the Biological Station to survey salinities, temperatures and currents in the estuary, during the years 1984-1986. The results are presented in the following data report, volumes 1 and 2, covering observations in 1984 and 1985/86, respectively.

OBSERVATIONS

Observations were carried out with a Hydrolab model TC-2 conductivity meter to measure conductivities and temperatures and a General Oceanics model 2035 MK III flow meter for current measurements, both units deployed from a Zodiac semi-inflatable boat. Figure 1 shows the equipment arrangement, with some details of the manufacturers' specifications. The conductivity output was automatically corrected for a temperature of 25°C and subsequently converted to salinities with a formula proposed by Perkins and Lewis[1] of the Institute of Ocean Sciences (IOS).

The current meter read-out was non-directional. However, the clarity of the water enabled us to visually track the direction of the small probe from surface to bottom. In many cases it was pos ible to locate the reversal of flow near the halocline within centimetres, using a nylon tape attached to the salinity and current probes. The absence of suspended sediment in the river at average flow conditions also made it possible to use a very small impeller-type flow meter without losing accuracy due to clogging of the bearings. Both salinometer and current meter were verified at IOS at regular intervals.

Time series were carried out to measure the current pattern near the interface between fresh and salt water, and to determine the velocity of the advancing salt wedge.

NOTE: Data for the salinity column and associated graphs (marked with an asterisk) for November 22 and 23, 1984 are suspicious (pages 228-248).

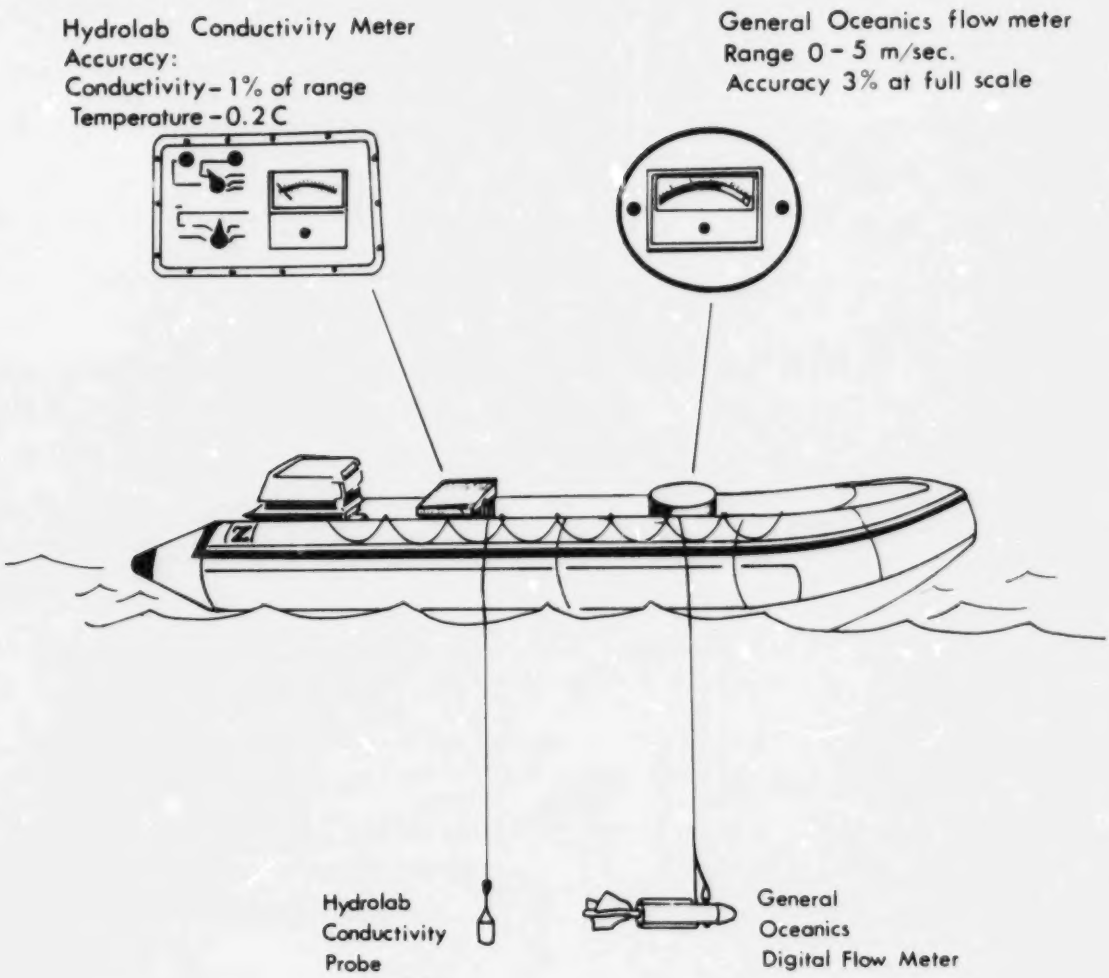


Fig. 1 Sketch of equipment used for data collection.

STATION LOCATIONS

Figure 2 shows the positions of the primary stations (occupied frequently) while Figure 3 marks the positions of the secondary stations (occupied rarely).

Tables 1 and 2 list stations in the data records and are tabulated against locations marked in Figures 2 and 3. respectively. Table 3 lists unmarked secondary stations which were referred to in the data records but could not be marked clearly in Figures 2 and 3. However, the data were retained for use in a future biological report.

REFERENCES

(1) UNESCO Technical Papers in Marine Science No. 37. Paris. 1981.

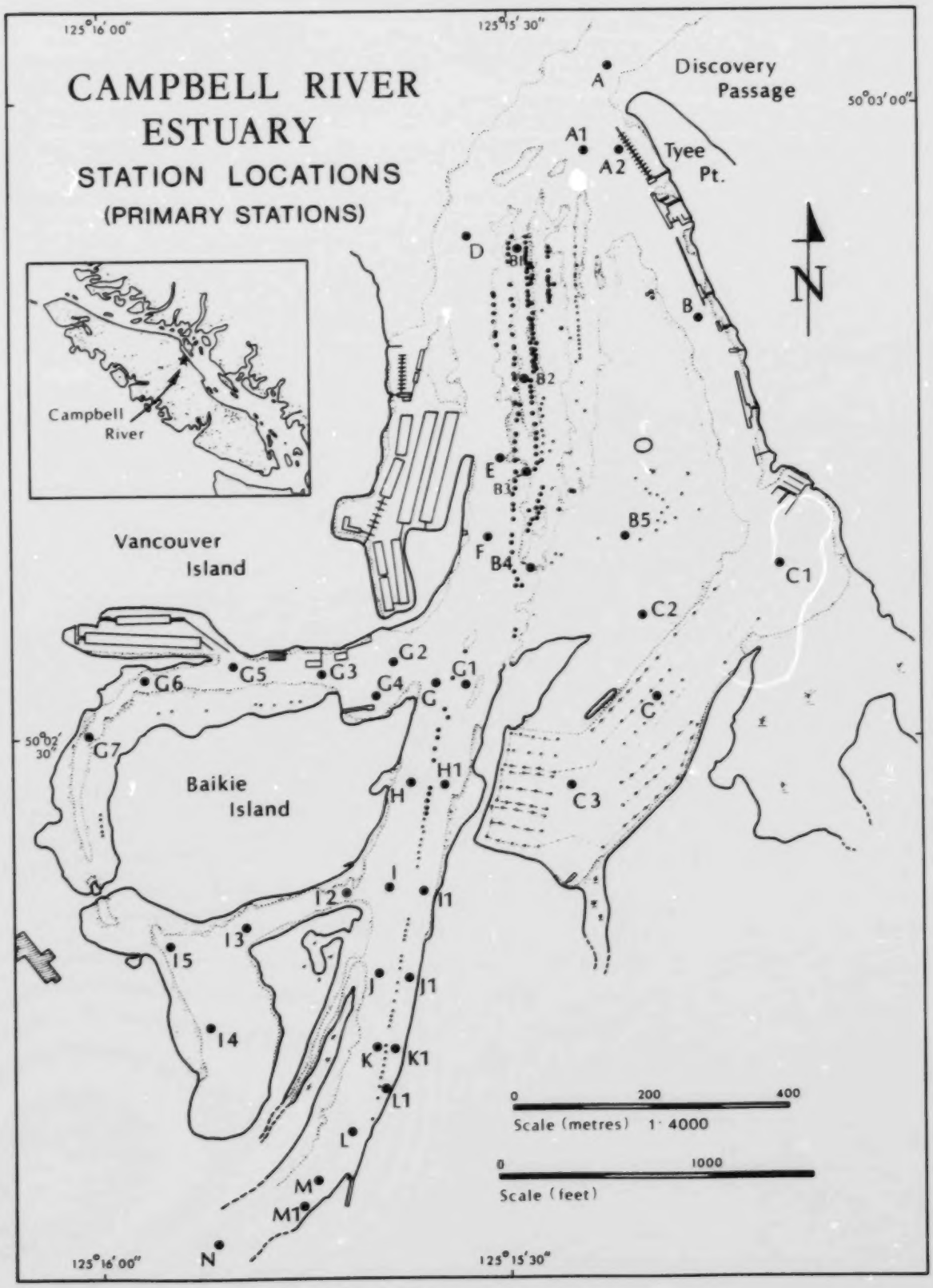


Fig. 2 Primary stations in the Campbell River Estuary.

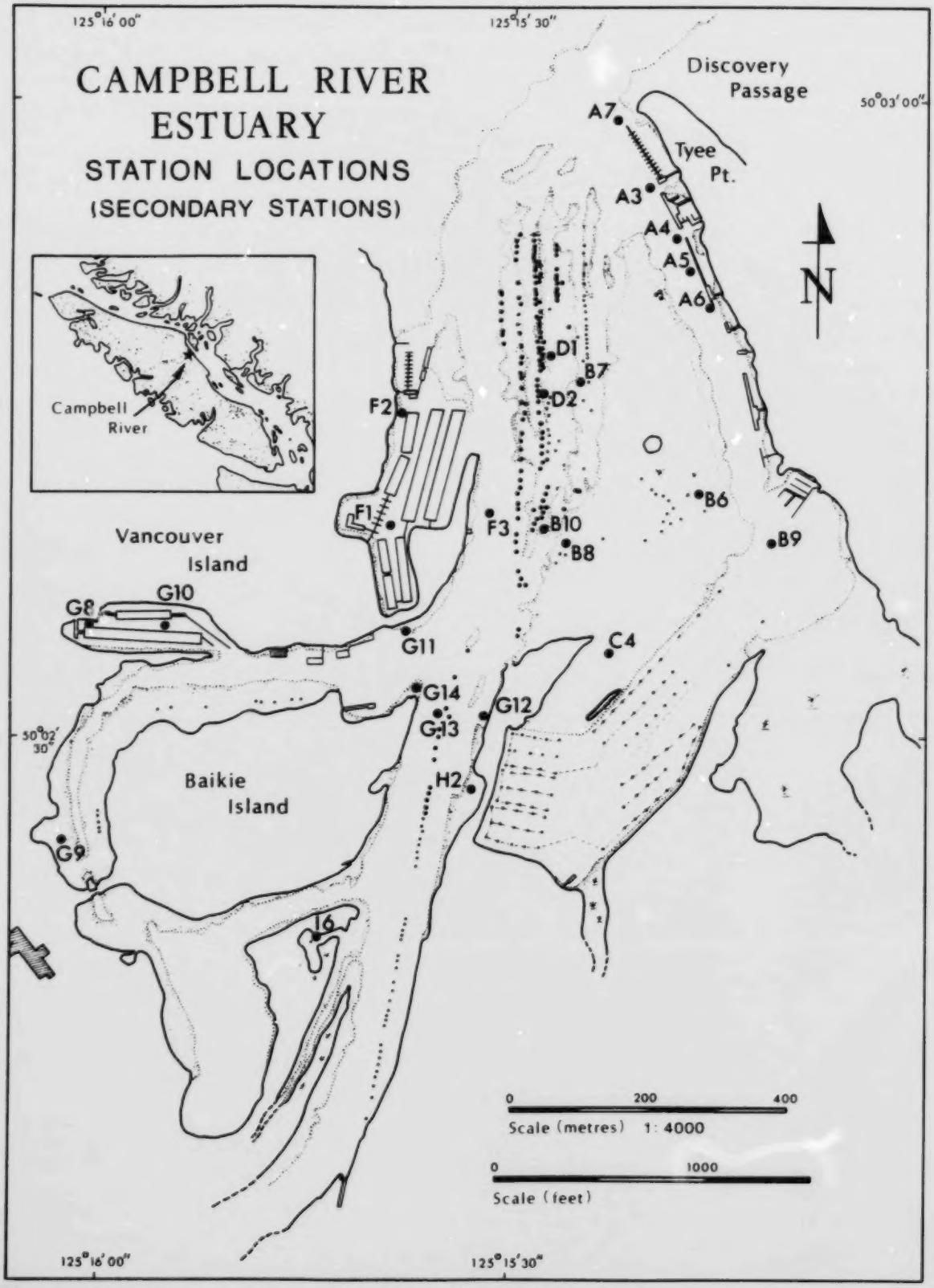


Fig. 3 Secondary stations in the Campbell River Estuary.

Table 1 Campbell River Estuary Primary Station Names

STATION	CHART LOCATION
TYEE PT	A
SPIT FLOAT (A1)	A1
SPIT FLOAT (A2)	A2
MOTHER RAMP	B
ISL#3 (B1)	B1
ISL#3 (B2)	B2
ISL#3 PULLEY	B3
ISL#3 (B4)	B4
ISL#1&2 CHAN	B5
LOG BASIN	C
NUN'S CREEK	C1
GRASS	C2
LOG BASIN CHAN#2	C3
RANGE MARKERS	D
GULF SIGN	E
FISH STN WHARF	F
NBM MAIN	G
FISH BARGE MAIN	H
SBM MAIN	I
FRED'S MAIN	J
TOP TAG MAIN	K
ORANGE CRANE	L
PILE BREAKWATER	M
C.R. LODGE	N
CHUTE NBM	G1
NBM	G2
TUG TURN NBM	G3
BARGE TURN NBM	G4
NBS	G5
BOATLAND NBS	G6
CEDAR NBS	G7
CHUTE FISH BARGE	H1

Table 1 Concluded

STATION	CHART LOCATION
CHUTE SBM	I1
SBS (I2)	I2
SBS (I3)	I3
RAVEN'S LOG SORT	I4
BEEHIVE	I5
CHUTE FRED'S	J1
CHUTE TOP TAG	K1
CHUTE TOP END	L1
PRIVATE FLOAT M1	M1

Table 2 Campbell River Estuary Secondary Station Names

STATION	CHART LOCATION
#1 RAMP	A3
#2 RAMP	A4
#3 RAMP	A5
#4 RAMP	A6
PINK PEN MARINA	A7
NUN'S ISLAND	B6
ISL#3 CHAN	B7
ISL#1 BAY	B8
TYEE POOL NORTH	B9
ISL#1 CHAN	B10
NATURAL ISL CHAN	C4
FLOAT, MAIN CHAN	D1
GAUGE, DOLPHIN	D2
FW MARINA	F1
MARINA SHED G	F2
GULF/12 M BULK	F3
MARINA RAMP	G8
NBS CEDAR MILL	G9
MARINA SHED B	G10
PARKING LOT PT	G11
BARGE RAMP	G12
NBM SHEARLINE	G13
NBM MAIN SHEAR	G14
CHUTE FLOAT	H2
FRED'S BASIN	I6

Table 3 Campbell River Estuary Names of Secondary Stations

STATION	STATION
#1 RAMP 100 M W	FISH BARGE MID
#1 RAMP 20 M W	FISH BARGE 10 M/P
#1 RAMP MID CHAN	SBM MID
#2 RAMP MID SHORE	C.R. BRIDGE
#2 RAMP MID CHAN	200 M SOUTH TYEE
#3 RAMP SHORE	300 M NORTH TYEE PT
#4 RAMP MID CHAN	PLUME OFF TYEE PT
NUN'S ISLAND MID CHAN	TYEE PT 100 M/W
ISL#1 CHAN EAST	TYEE PT 20 M/W
ISL#1 CHAN (TIED)	NBM MAIN 2 M/W
ISL#1 CHAN (B4A)	NBM MAIN TIED/P
ISL#1 CHAN MID	NBM MAIN CHAN 3 M/P
ISL#3 CHAN (B3) (TIED)	NBM MAIN 10 M/P
ISL#3 CHAN (B1) (TIED)	NBM MID SLOUGH
GULF MID CHAN	KNOLL HILL STN
GULF 20 M/PILINGS	TOP END MAIN CHAN
FISH STN MID CHAN	AL'S FLOAT
FISH STN 10 M/W	GREAT WHITE
FISH STN 2 M/W	CHUTE AL'S FLOAT
FISH STN WHARF MID	MOTHER RAMP 2 M/E
FISH STN WHARF PT	MOTHER RAMP MID

JUL 18/84 RIVER DISCHARGE = 68 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
NBM MAIN	13H 20M	.0	1.0	16.8		
		.5	1.1	16.8		
		1.0	1.9	16.8		
		2.0	2.0	15.3		
SBS (I2)	13H 28M	1.0	.0	15.5		
FISH STN WHARF	13H 36M	.0	.1	15.4		
		.5	.1	15.4		
		1.0	.1	15.4		
		1.5	.1	15.4		
TYEE PT	13H 45M	.0	2.9	15.0		
		1.0	24.9	12.5		
		2.0	27.6	12.0		
		2.5	27.6	11.5		
TYEE PT	13H 54M	.0	.6	15.5		
		.5	.8	15.5		
		1.0	1.0	15.5		
		2.0	26.4	11.3		
		3.0	27.6	11.5		
MOTHER RAMP	14H 03M	.0	1.6	15.5		
		.5	1.9	15.5		
		1.0	2.9	15.5		
		2.0	27.6	12.5		
LOG BASIN	14H 11M	.0	2.7	16.0		
		.5	3.2	16.0		
		1.0	3.7	15.5		
		2.0	25.7	12.5		
		3.0	27.6	12.0		
		4.0	28.3	11.0		
		5.0	28.3	10.5		
NBM MAIN	15H 17M	.0	.6	16.0		
		.5	.6	16.3		
		1.0	.8	16.4		
		2.0	22.6	14.3		

JUL 18/84

RIVER DISCHARGE = 68 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SBS (I2)	15H 23M	.0	.8	16.5		
		.5	.8	16.5		
		1.0	1.1	16.5		
SBM MAIN	15H 26M	.0	.1	15.5		
		.5	.0	15.5		
		1.0	.1	15.2		
ISL#3 (B1)	15H 36M	.0	.0	15.6		
		.5	.0	15.7		
		1.0	.0	15.7		
ISL#3 (B2)	15H 40M	.0	.0	15.7		
		.5	.0	15.7		
		1.0	.0	15.7		
TYEE PT	19H 30M	.0	18.6	14.0		
		.5	27.6	11.0		
		1.0	28.3	10.5		
		2.0	28.3	10.5		
		3.0	28.3	10.0		
SPIT FLOAT (A1)	19H 33M	.0	2.0	15.0		
		.5	3.8	14.5		
		1.0	17.9	12.3		
		2.0	27.6	10.5		
		3.0	28.3	10.2		
		4.0	28.7	10.0		
		5.0	28.7	10.0		
MOTHER RAMP	19H 40M	.0	1.7	15.5		
		.5	2.5	15.7		
		1.0	3.8	15.6		
		2.0	27.6	10.4		
		3.0	28.3	10.0		
		3.5	28.3	10.0		
LOG BASIN	19H 47M	.0	1.6	15.7		
		.5	1.7	15.8		
		1.0	1.9	15.8		
		2.0	24.5	12.5		
		3.0	26.2	12.5		

JUL 18/84 RIVER DISCHARGE = 68 CU.M/SEC

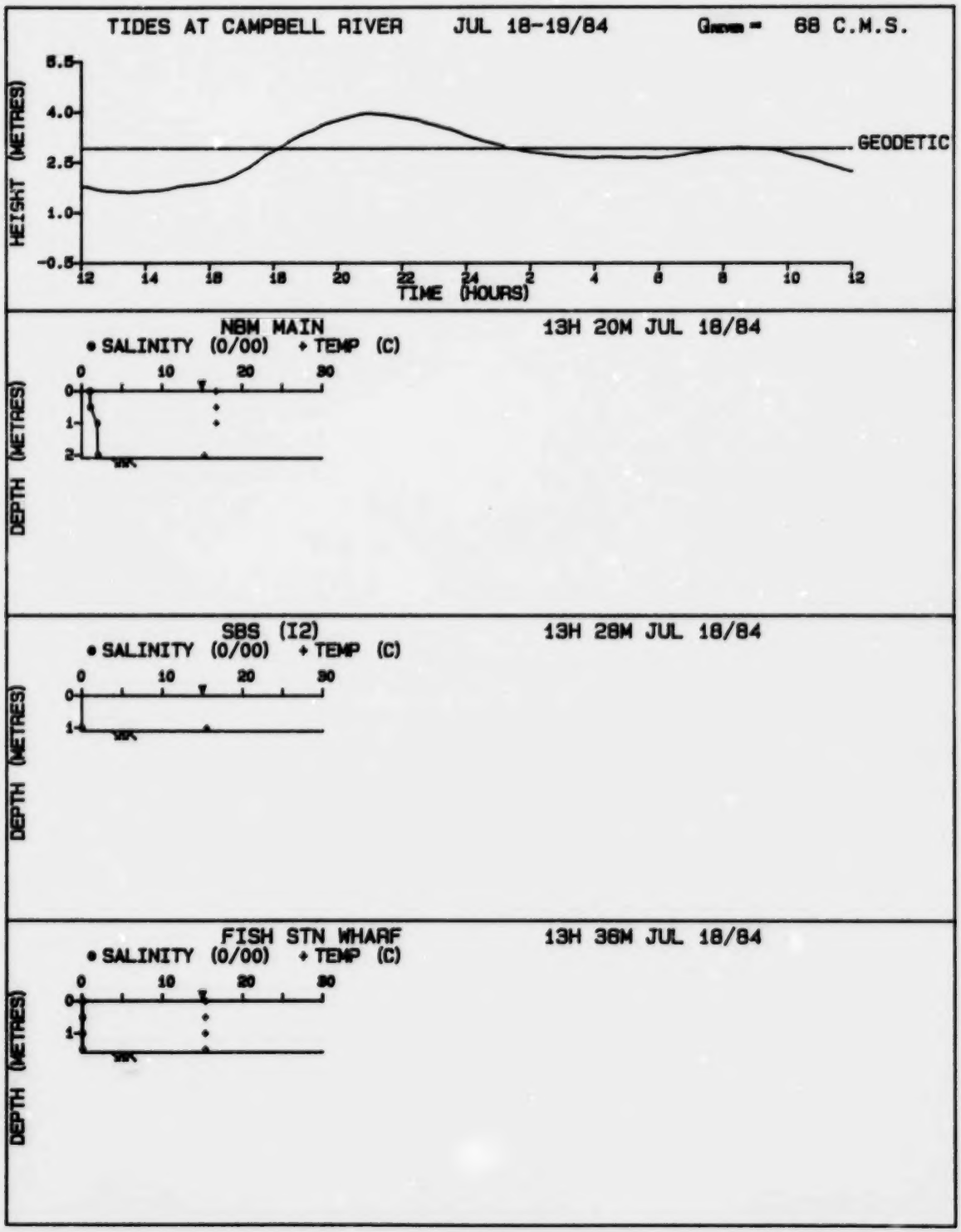
LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
LOG BASIN	19H 47M	4.0	27.1	12.3		
		5.0	27.9	10.6		
		6.0	28.3	10.6		
		6.9	28.3	10.5		
FRED'S MAIN	20H 09M	.0	.1	14.5		
		.5	.1	14.5		
		1.0	.1	14.5		
		2.0	3.8	14.4		
		3.0	25.5	11.5		
		3.5	26.4	11.0		
FRED'S SLOUGH	20H 14M	.0	.1	15.0		
		.5	.1	15.0		
		1.0	.2	15.0		
		1.5	1.0	15.0		
C.R. LODGE	20H 20M	.0	.0	14.5		
		.5	.0	14.5		
		1.0	.0	14.8		
PILE BREAKWATER	20H 23M	.0	.0	14.5		
		.5	.0	14.6		
		1.0	.0	14.8		
		2.0	.0	14.8		
ORANGE CRANE	20H 25M	.0	.1	14.5		
		.5	.1	14.5		
		1.0	.1	14.6		
		2.0	.8	14.7		
		2.5	8.7	13.7		
ISL#3 PULLEY	20H 46M	.0	3.5	13.8		
		.5	6.1	13.8		
		1.0	17.9	12.4		
		2.0	28.3	10.1		
		3.0	28.7	10.0		
SBM MAIN	20H 30M	.0	.1	14.8		
		.5	.1	14.8		
		1.0	.5	14.5		
		2.0	12.9	13.8		

JUL 18/84

RIVER DISCHARGE = 68 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SBM MAIN	20H 30M	3.0	26.8	11.0		
NBM MAIN	20H 34M	.0	.0	14.5		
		.5	.1	14.5		
		1.0	.1	14.7		
		2.0	23.8	12.0		
		3.0	27.9	10.2		
		4.0	28.3	10.0		
FISH STN WHARF	20H 41M	.0	.0	14.0		
		.5	1.7	14.5		
		1.0	3.5	14.5		
		2.0	27.6	10.5		
		3.0	28.3	10.0		

SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



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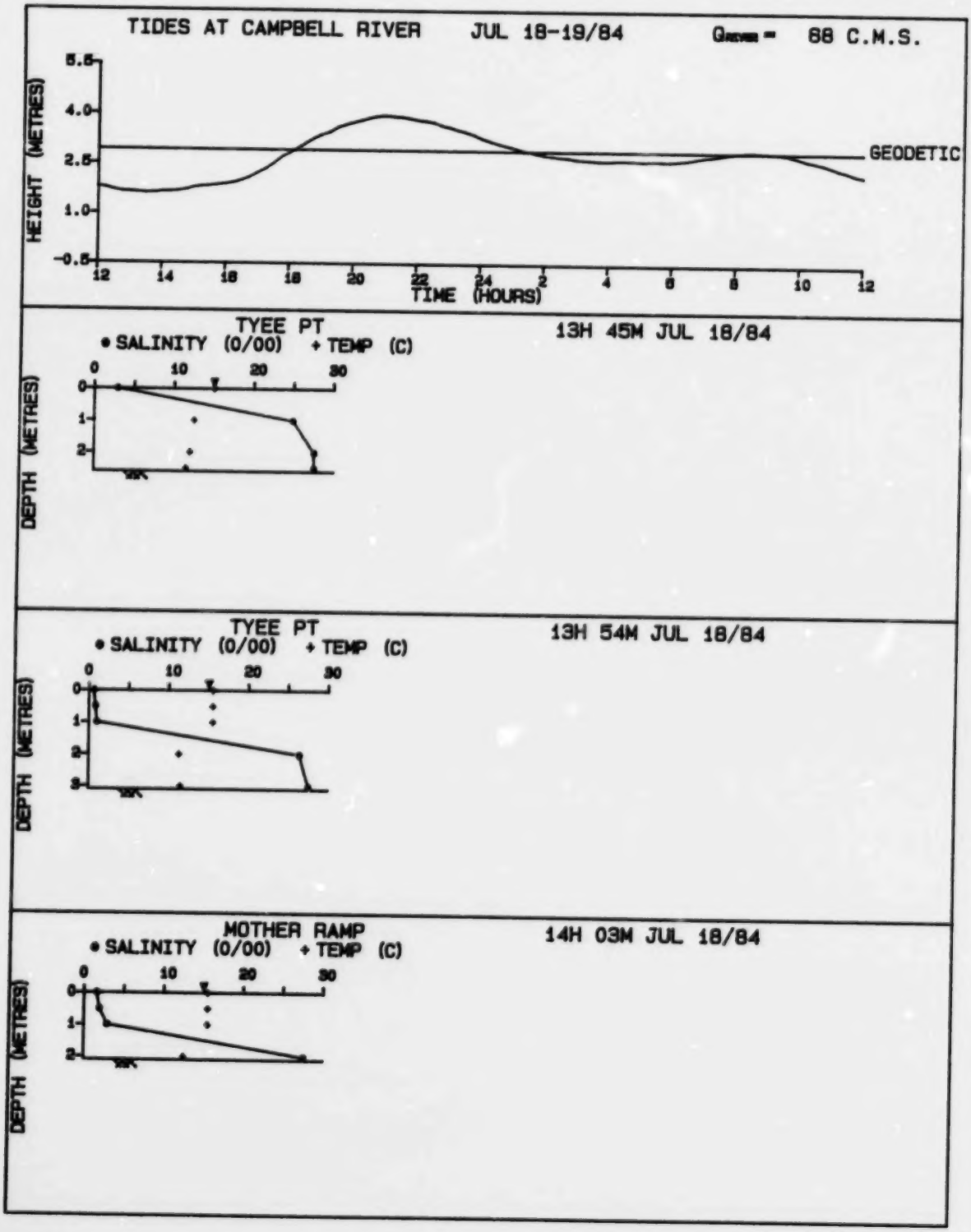

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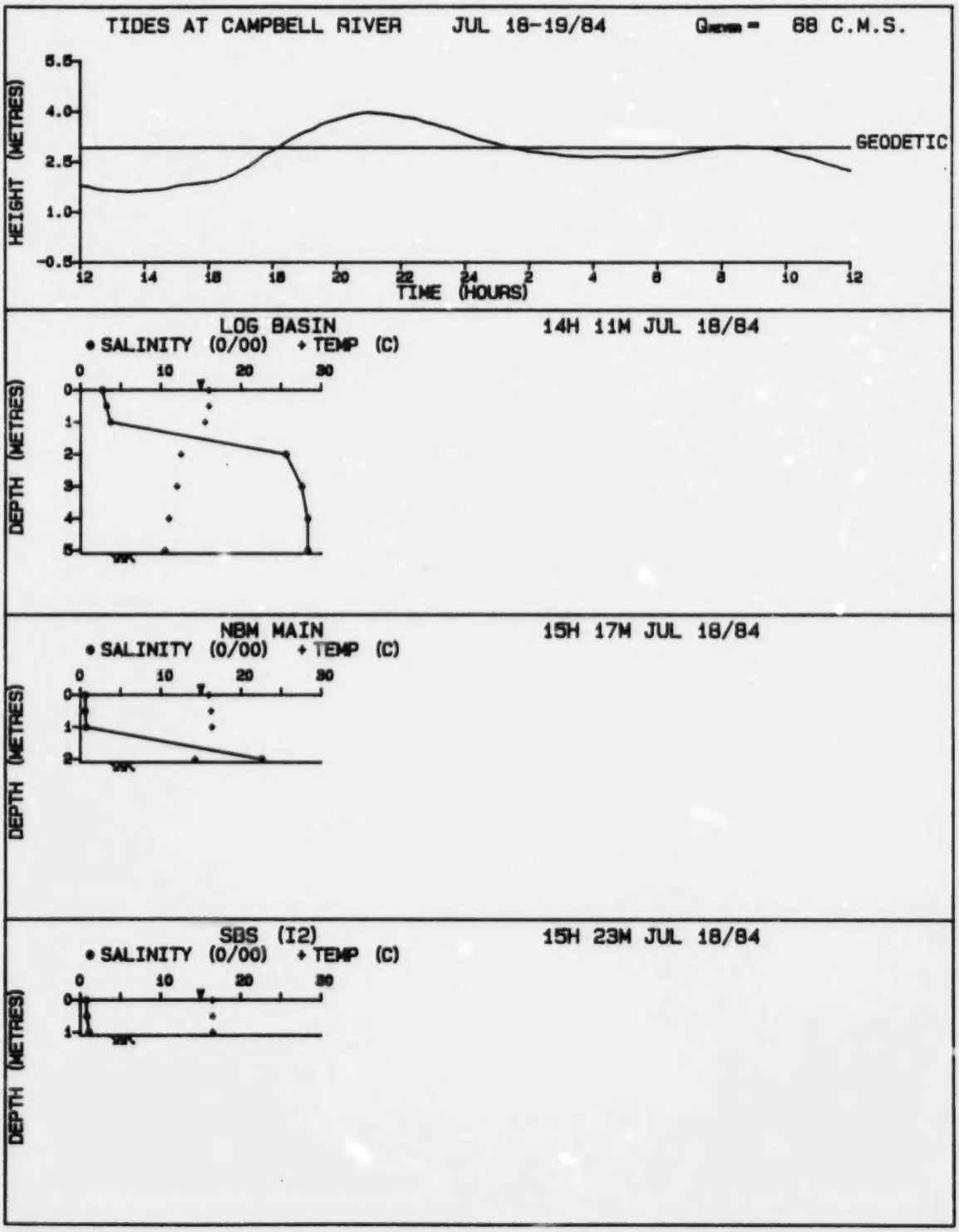

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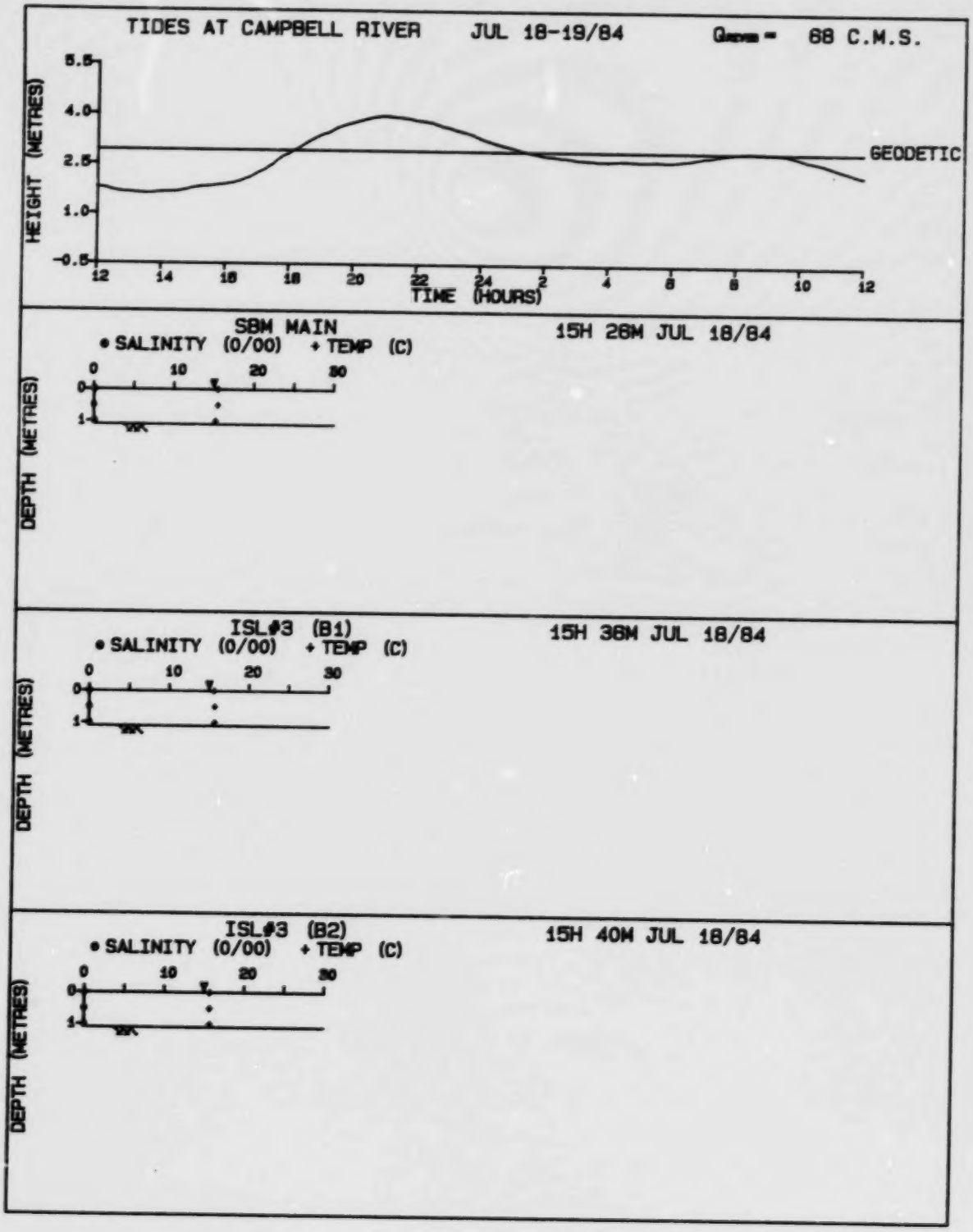

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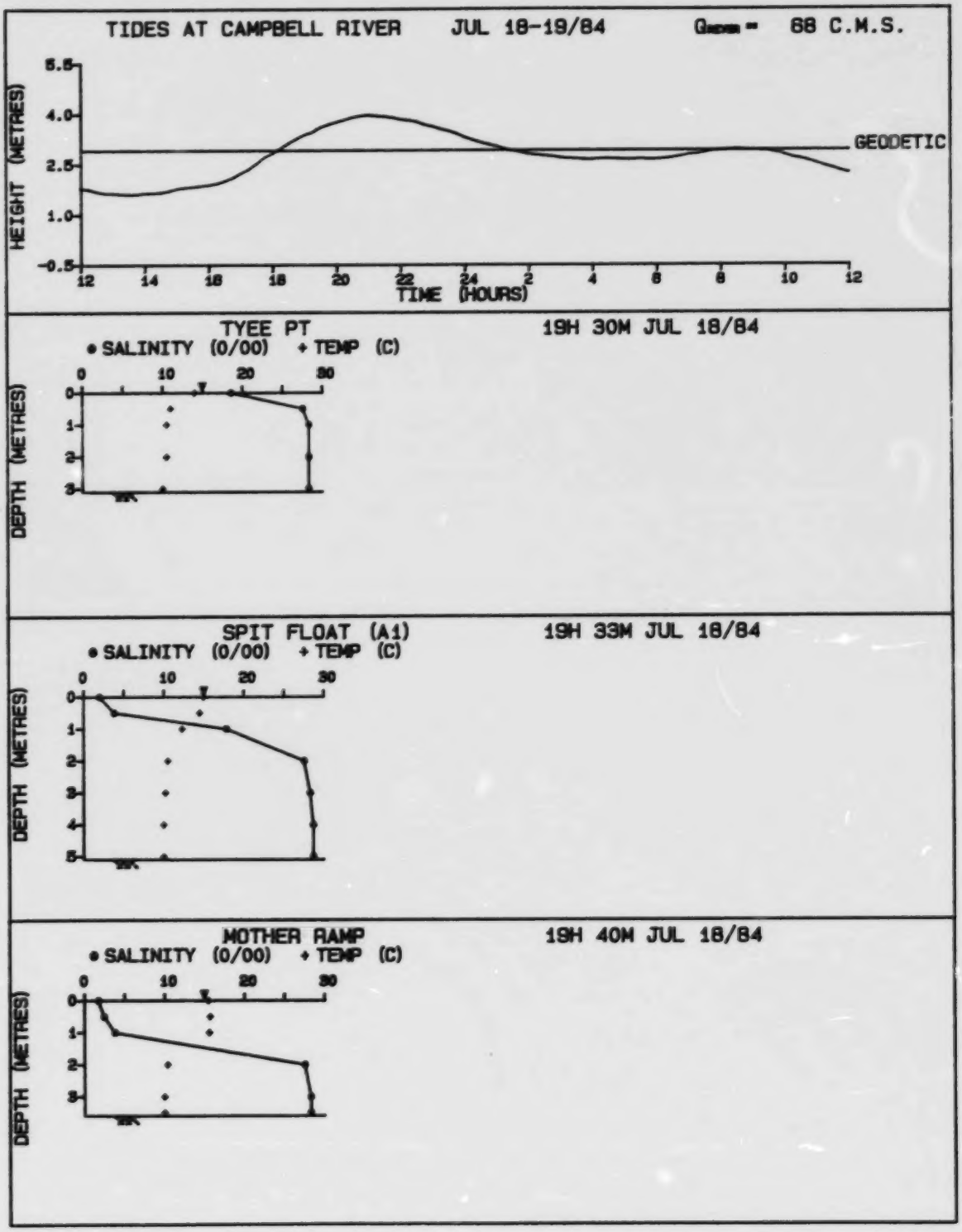

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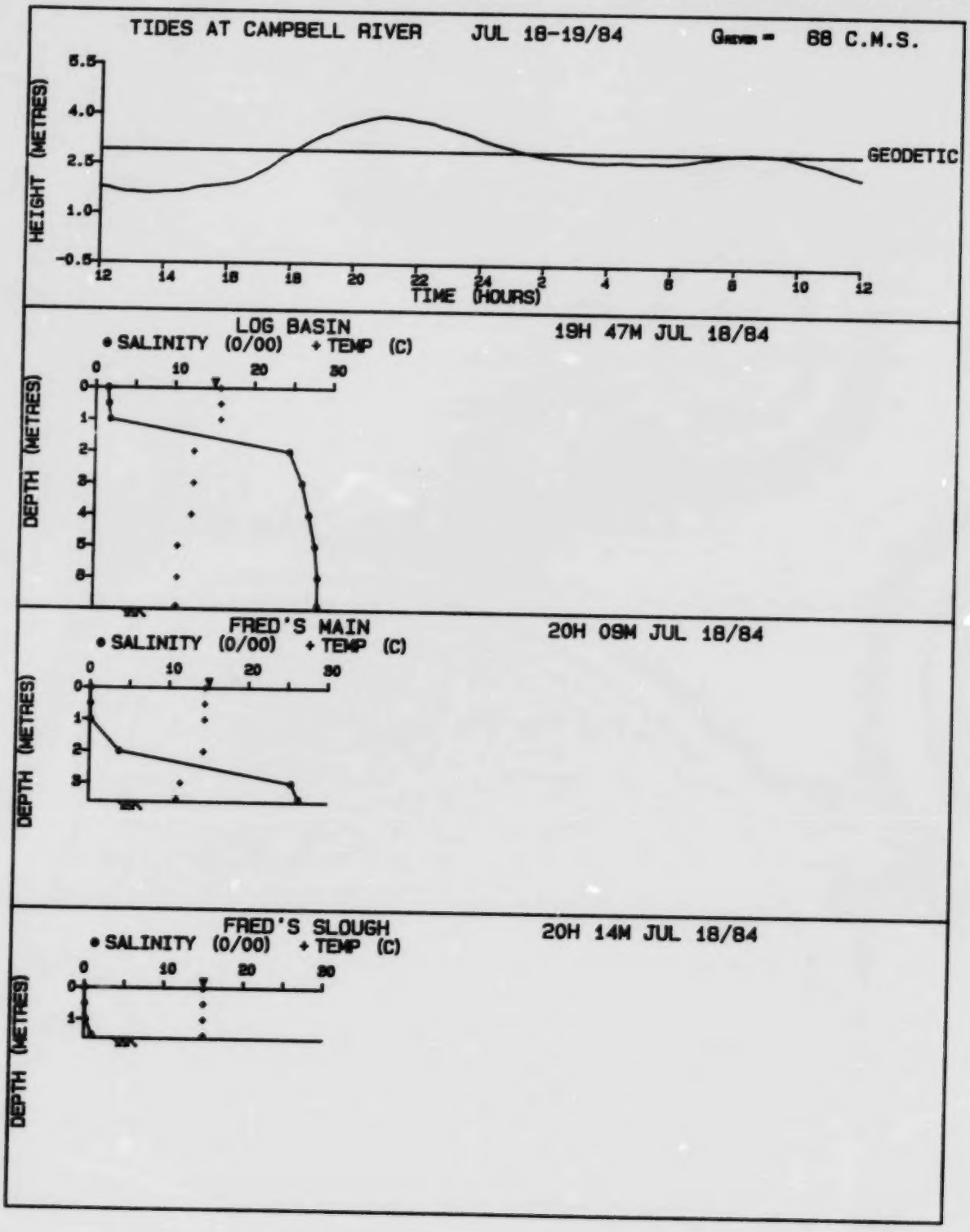

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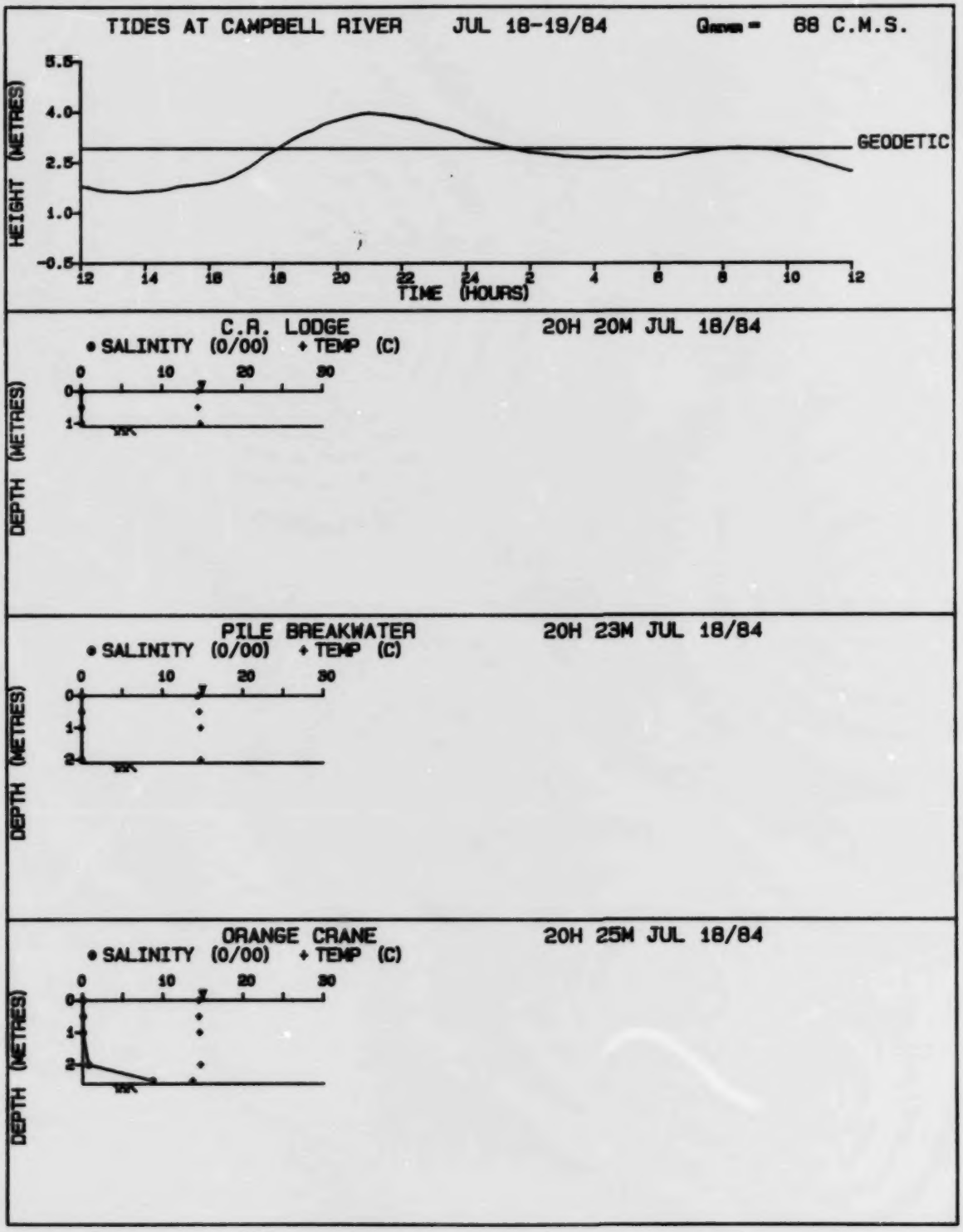

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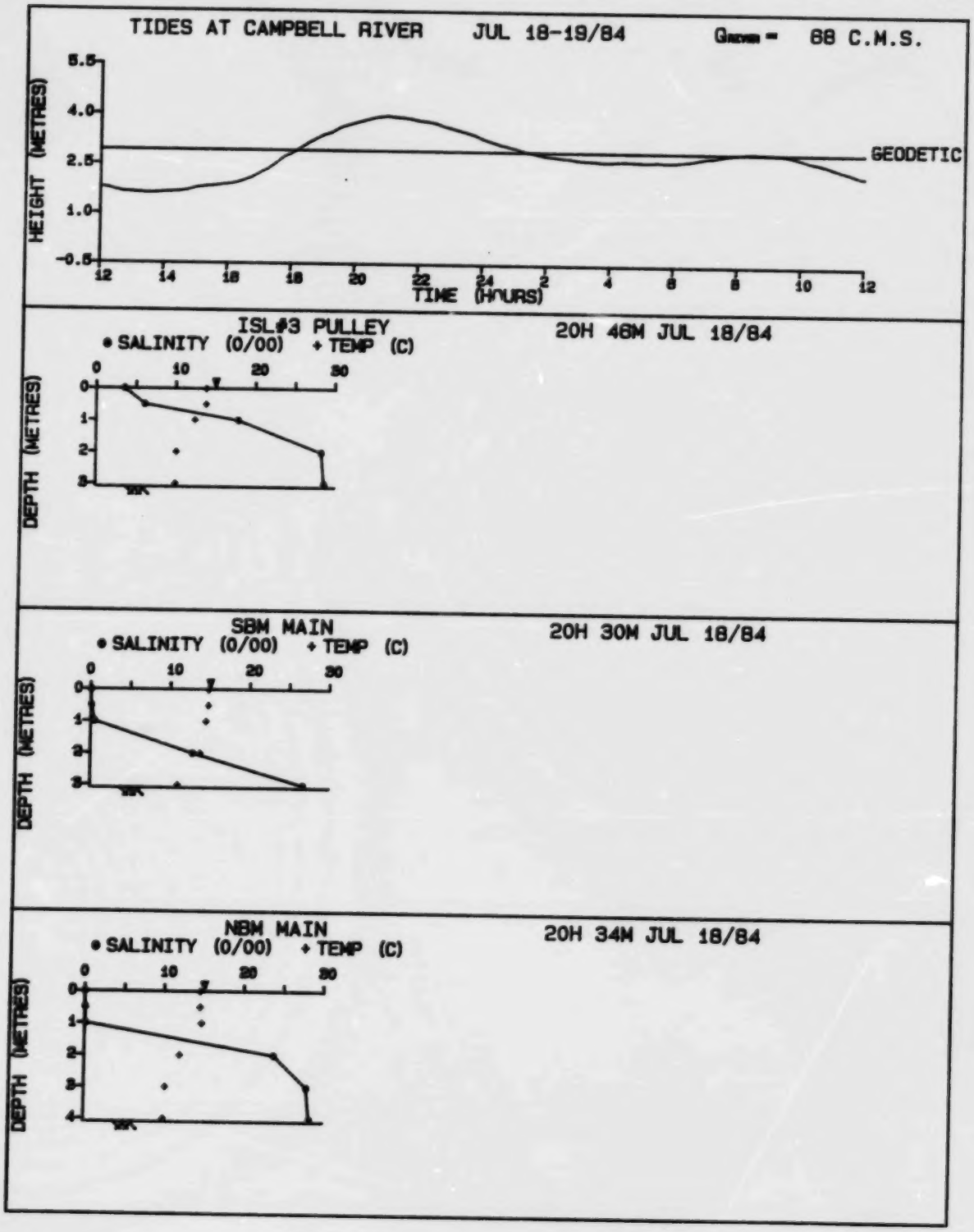

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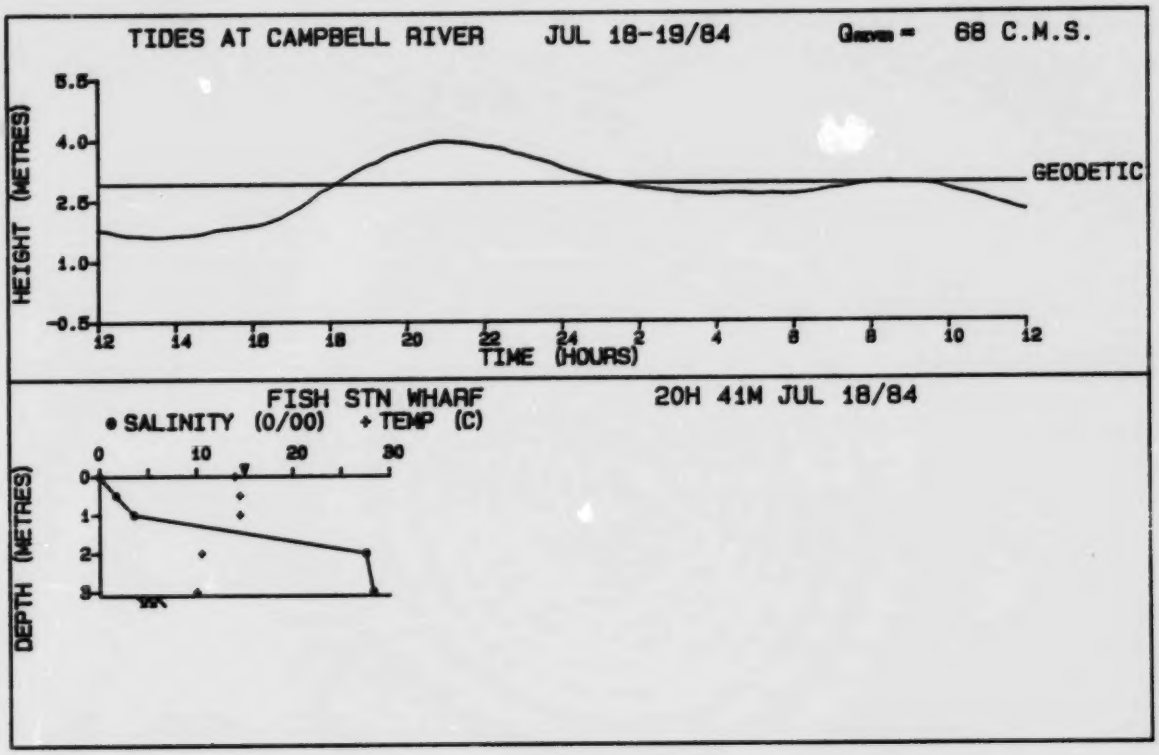


JUL 19/84

RIVER DISCHARGE = 67 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
PILE BREAKWATER	07H 50M	.0	.0	15.2		
		.5	.0	15.0		
		1.0	.0	15.0		
		2.0	.0	15.0		
		3.0	.0	14.8		
		4.0	.0	14.8		
ORANGE CRANE	07H 53M	.0	.0	14.7		
		.5	.1	14.6		
		1.0	.1	14.6		
		2.0	.1	14.6		
		3.0	.1	14.6		
		4.0	.1	14.6		
FRED'S MAIN	07H 57M	.0	.1	14.6		
		.5	.1	14.6		
		1.0	.1	14.6		
		2.0	.1	14.6		
SBM MAIN	07H 59M	.0	.1	14.7		
		.5	.1	14.7		
		1.0	.1	14.6		
		2.0	1.0	14.5		
SBS (I2)	08H 03M	.0	.5	14.6		
		.5	.5	14.6		
		1.0	.9	14.6		
		1.5	.9	14.6		
SBS (I3)	08H 05M	.0	.3	14.6		
		.5	.4	14.6		
		1.0	.5	14.6		
		1.6	3.5	14.8		
RAVEN'S LOG SORT	08H 08M	.0	.3	14.6		
		.5	.4	14.6		
		1.0	.6	14.6		
		1.6	9.0	14.5		
FISH BARGE	08H 13M	.0	.4	14.4		
		.5	.4	14.4		
		1.0	.6	14.3		

JUL 19/84 RIVER DISCHARGE = 67 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH BARGE	08H 13M	2.0	27.4	12.2		
		3.0	27.9	10.8		
SBM MAIN	08H 17M	.0	.0	14.3		
		.5	.2	14.4		
		1.0	.2	14.4		
		2.0	3.8	14.4		
MOTHER RAMP	08H 32M	.0	3.8	13.5		
		.5	3.6	13.5		
		1.0	5.8	13.6		
		2.0	27.9	10.5		
		3.0	28.0	9.7		
LOG BASIN	08H 44M	.0	2.8	14.4		
		.5	3.0	14.3		
		1.0	4.5	14.3		
		2.0	25.7	12.3		
		3.0	27.2	10.6		
		4.0	27.5	10.3		
		5.0	27.6	10.2		
		6.0	27.8	10.0		
TYEE PT	09H 02M	.0	9.4	12.7		
		.5	26.8	10.5		
		1.0	28.3	10.0		
		2.0	28.5	9.8		
		3.0	28.3	9.5		
		4.0	28.3	9.5		
		5.0	28.7	9.5		
RANGE MARKERS	09H 09M	.0	1.1	14.7		
		.5	4.8	14.0		
		1.0	14.3	12.5		
		2.0	28.3	10.5		
		2.5	27.9	9.7		
FISH STN WHARF	09H 16M	.0	.1	14.4		
		.5	.8	14.4		
		1.0	1.7	14.2		
		2.0	27.6	10.6		
		2.5	28.0	9.7		

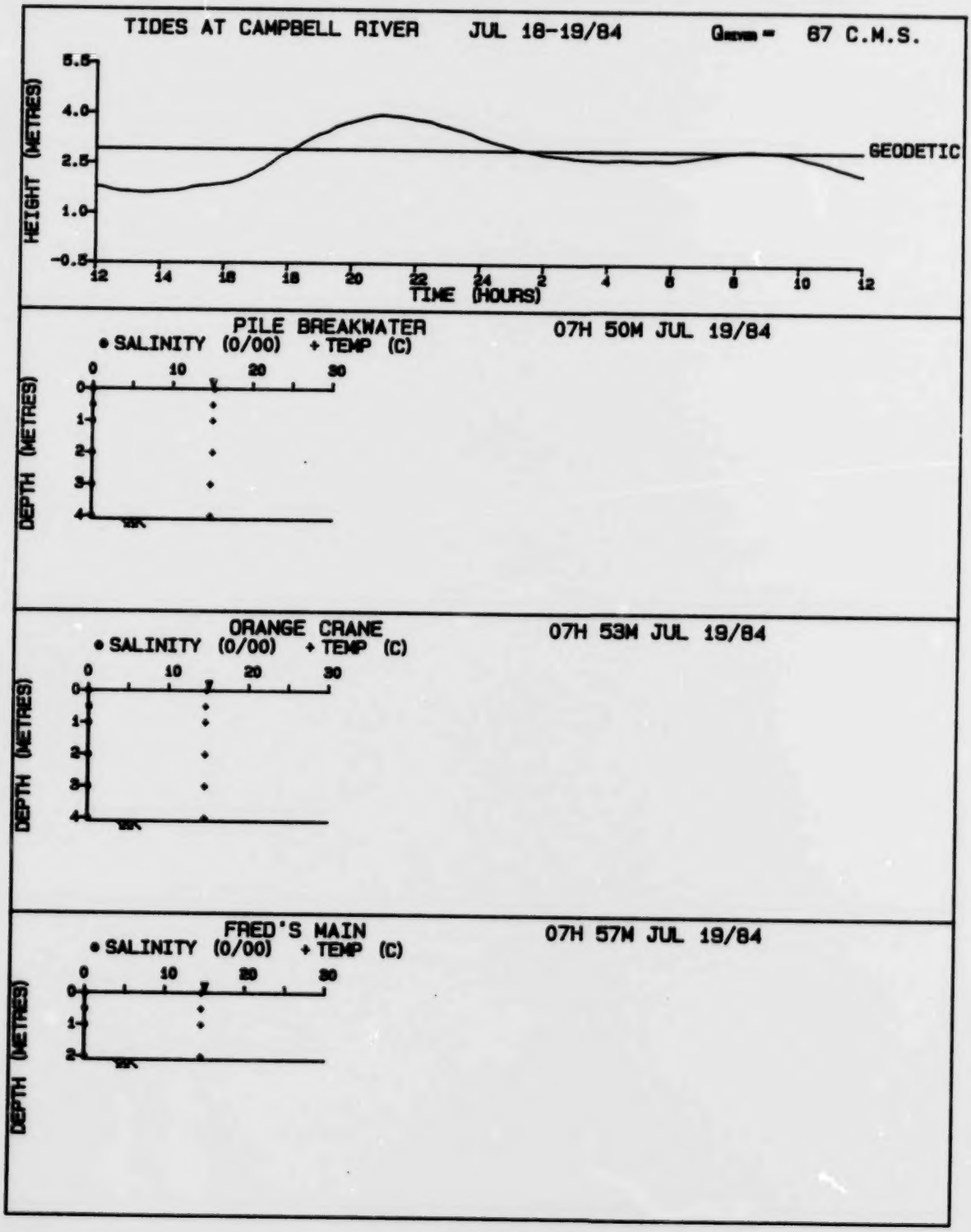
JUL 19/84 RIVER DISCHARGE = 67 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
NBM MAIN	09H 24M	.0	.2	14.5		
		.5	.2	14.6		
		1.0	1.8	14.4		
		2.0	26.4	10.2		
		3.0	27.9	10.0		
FISH BARGE	09H 28M	.0	.1	14.5		
		.5	.1	14.5		
		1.0	.3	14.5		
		2.0	9.3	10.4		
		3.0	27.6	10.2		
SBM MAIN	09H 32M	.0	.0	14.2		
		.5	.1	14.3		
		1.0	.2	14.2		
		2.0	3.8	13.7		
FRED'S MAIN	09H 39M	.0	.0	14.5		
		.5	.0	14.5		
		1.0	.0	14.5		
		2.0	.0	14.5		
CHUTE FRED'S	10H 44M	.0	.1	14.6		
		.5	.3	14.6		
		1.0	.2	14.5		
		2.0	2.2	14.2		
		3.0	27.6	11.0		
CHUTE TOP END	09H 48M	.0	.0	14.5		
		.5	.0	14.5		
		1.0	.1	14.5		
		2.0	.1	14.5		
CHUTE FISH BARGE	09H 53M	.0	.3	14.6		
		.5	.4	14.6		
		1.0	2.7	14.5		
		2.0	24.5	11.7		
ISL#3 PULLEYS	10H 02M	.0	3.5	14.4		
		.5	6.7	13.5		
		1.0	17.9	12.0		
		2.0	28.3	10.3		

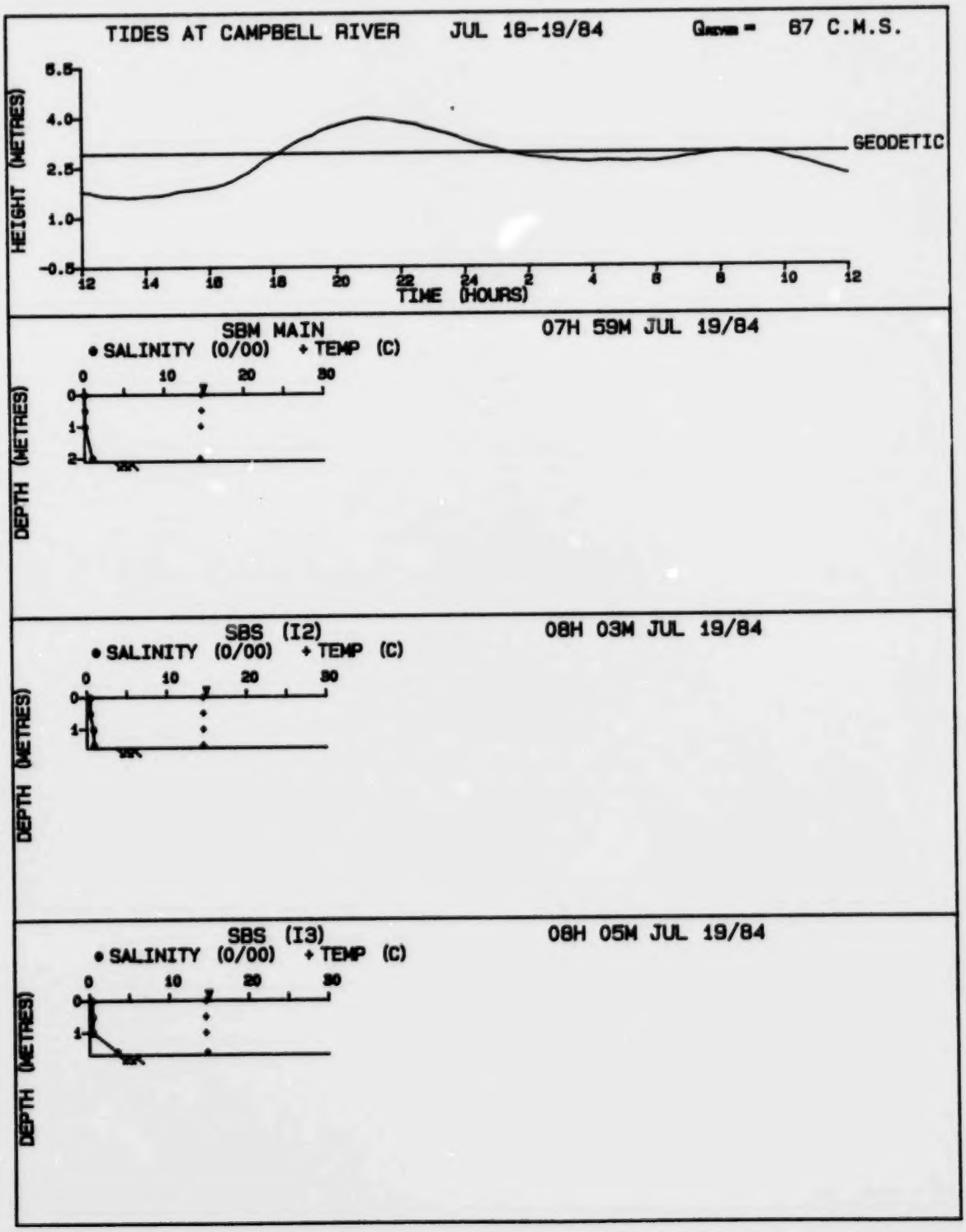
JUL 19/84 RIVER DISCHARGE = 67 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ISL#3 (B1)	10H 07M	.0	3.8	14.0		
		.5	3.9	14.0		
		1.0	12.2	13.0		
		1.5	27.6	10.0		
ISL#1&2 CHAN(B5)	10H 15M	.0	2.9	14.5		
		.5	4.3	14.0		
		1.0	4.8	14.0		
GRASS	10H 18M	.0	2.8	15.0		
		.5	3.0	15.0		
		1.0	19.0	14.0		
		1.5	25.3	12.5		
SBM MAIN	10H 25M	.0	.0	15.0		
		.5	.0	15.0		
		1.0	.0	15.0		
		1.5	.0	14.8		
SBS (I2)	10H 31M	.0	.3	15.0		
		.5	.4	15.0		
		1.0	.6	14.6		
SBS (I3)	10H 33M	.0	.3	15.2		
		.5	.6	15.0		
		1.0	.6	14.6		
		1.2	1.4	15.0		
RAVEN'S LOG SORT	10H 35M	.0	.5	15.0		
		.5	.5	15.0		
		1.0	.6	14.6		
		1.2	2.1	14.8		
BEEHIVE	10H 37M	.0	.5	15.0		
		.5	.8	15.0		
		1.0	.9	14.8		

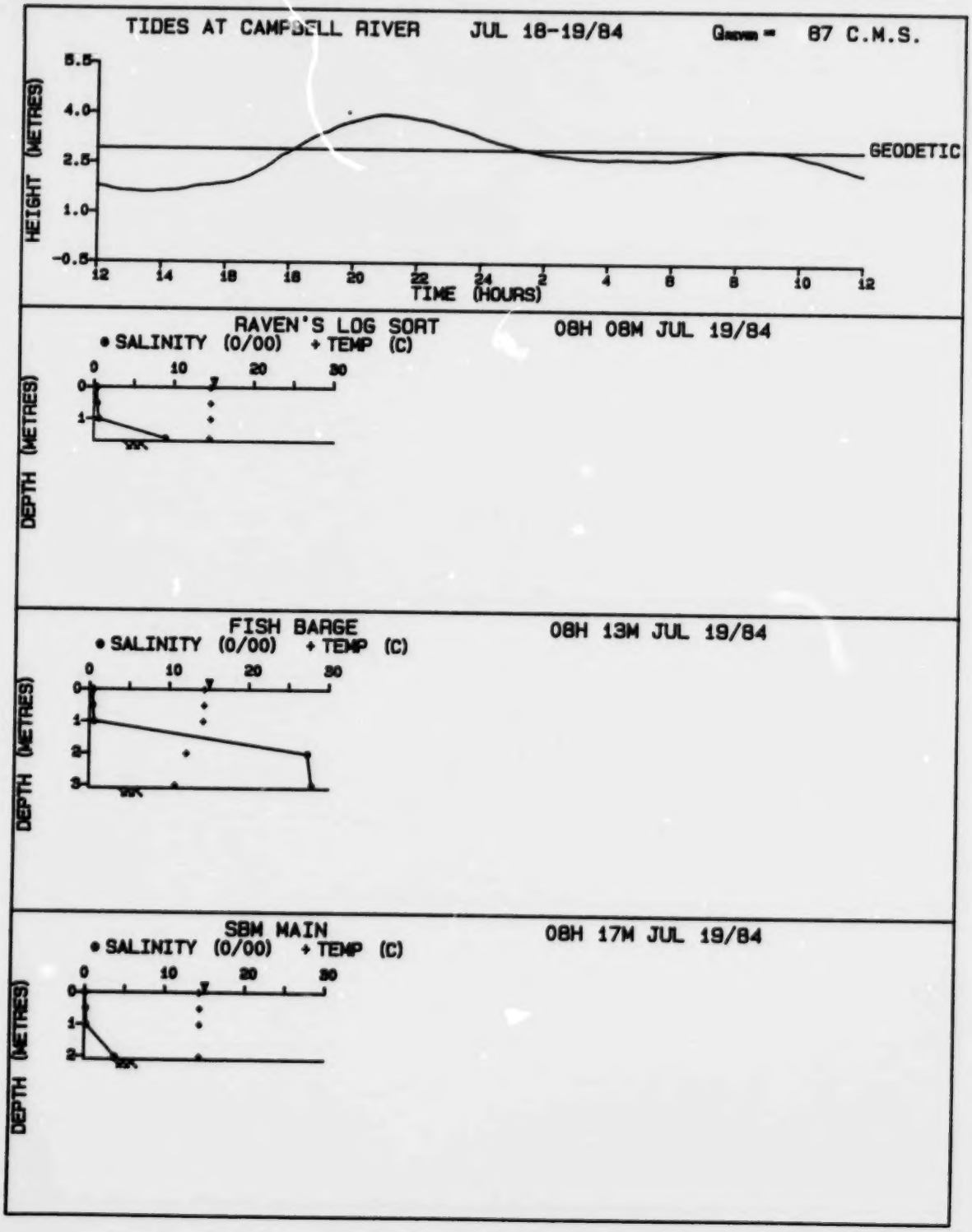
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



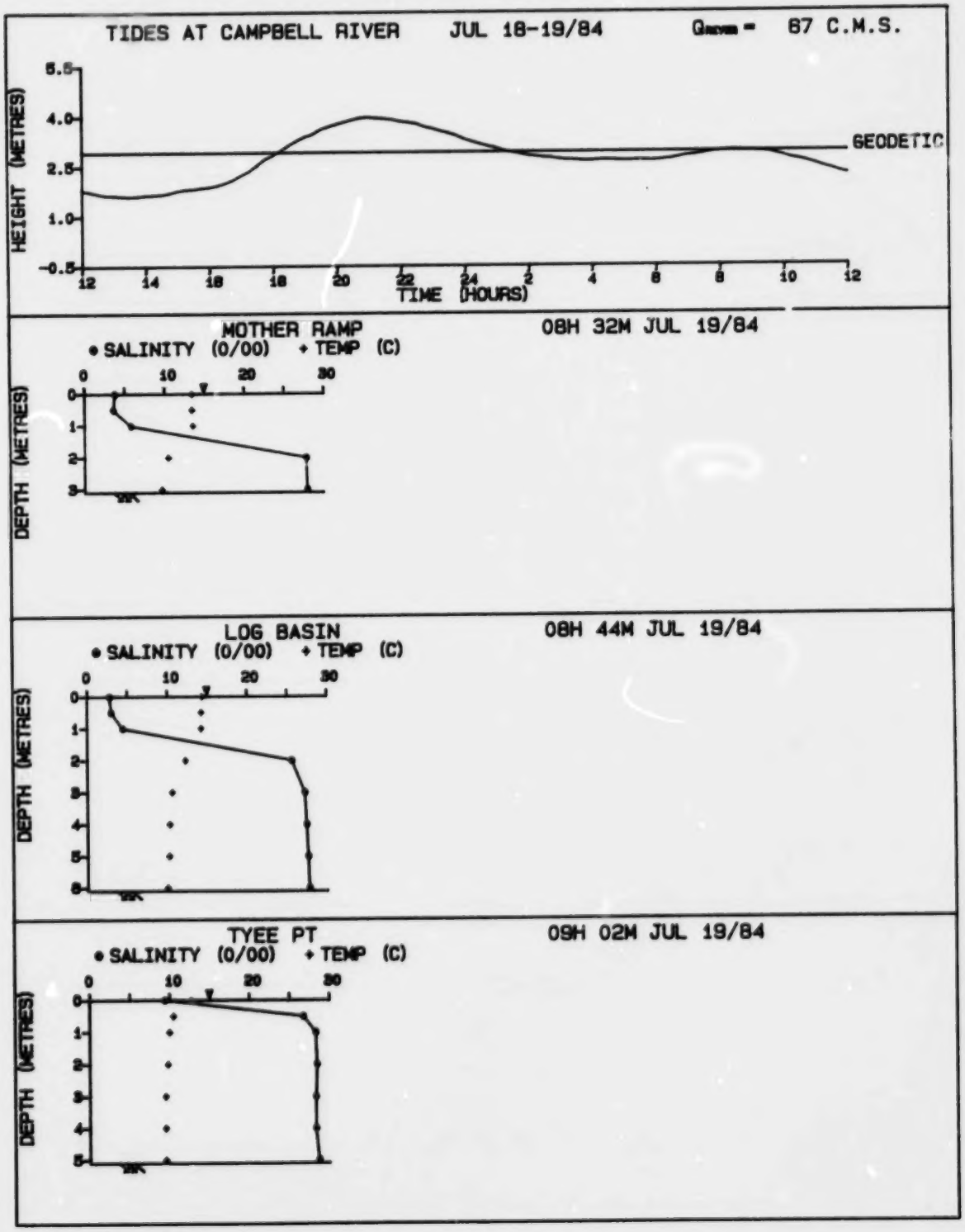
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



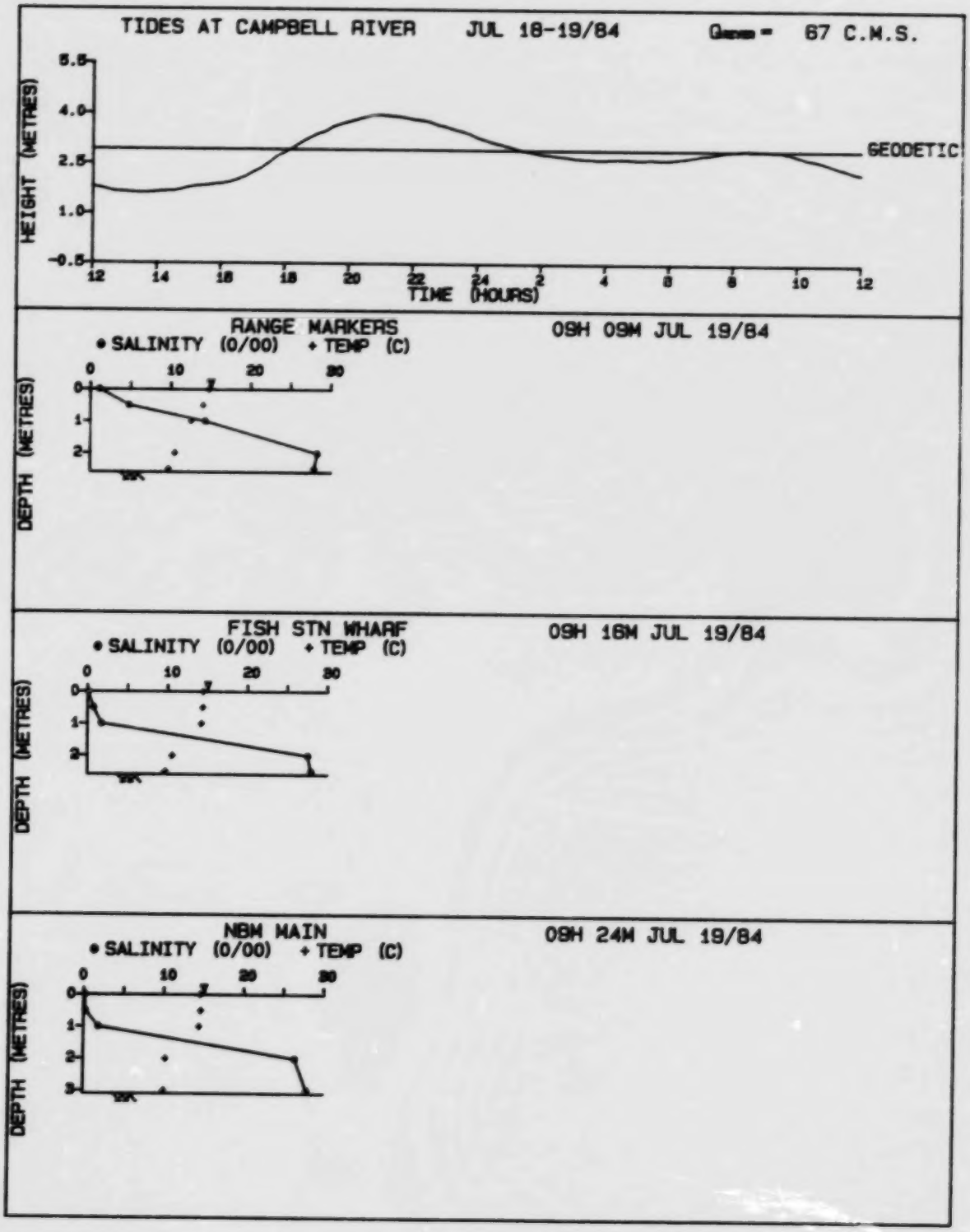
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER


TIDES AT CAMPBELL RIVER JUL 18-19/84 Qmean = 87 C.M.S.
HEIGHT (METRES)
5.5
4.0
2.5
1.0
-0.5
GEODETIC
12 14 16 18 20 22 24 2 4 6 8 10 12
TIME (HOURS)
RAVEN'S LOG SORT 08H 08M JUL 19/84
• SALINITY (0/00) + TEMP (C)
DEPTH (METRES)
FISH BARGE 08H 13M JUL 19/84
• SALINITY (0/00) + TEMP (C)
DEPTH (METRES)
SBM MAIN 08H 17M JUL 19/84
• SALINITY (0/00) + TEMP (C)
DEPTH (METRES)

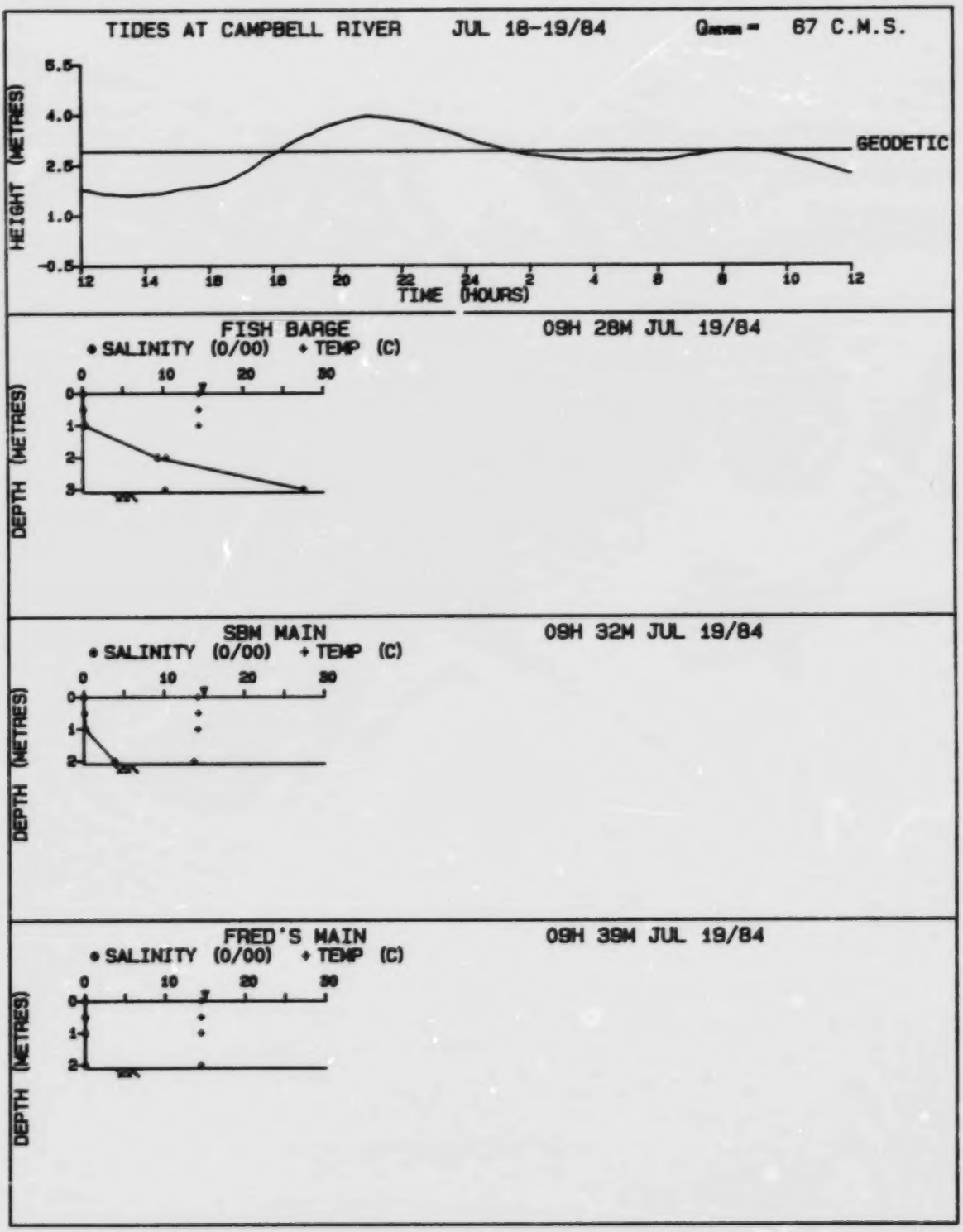
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



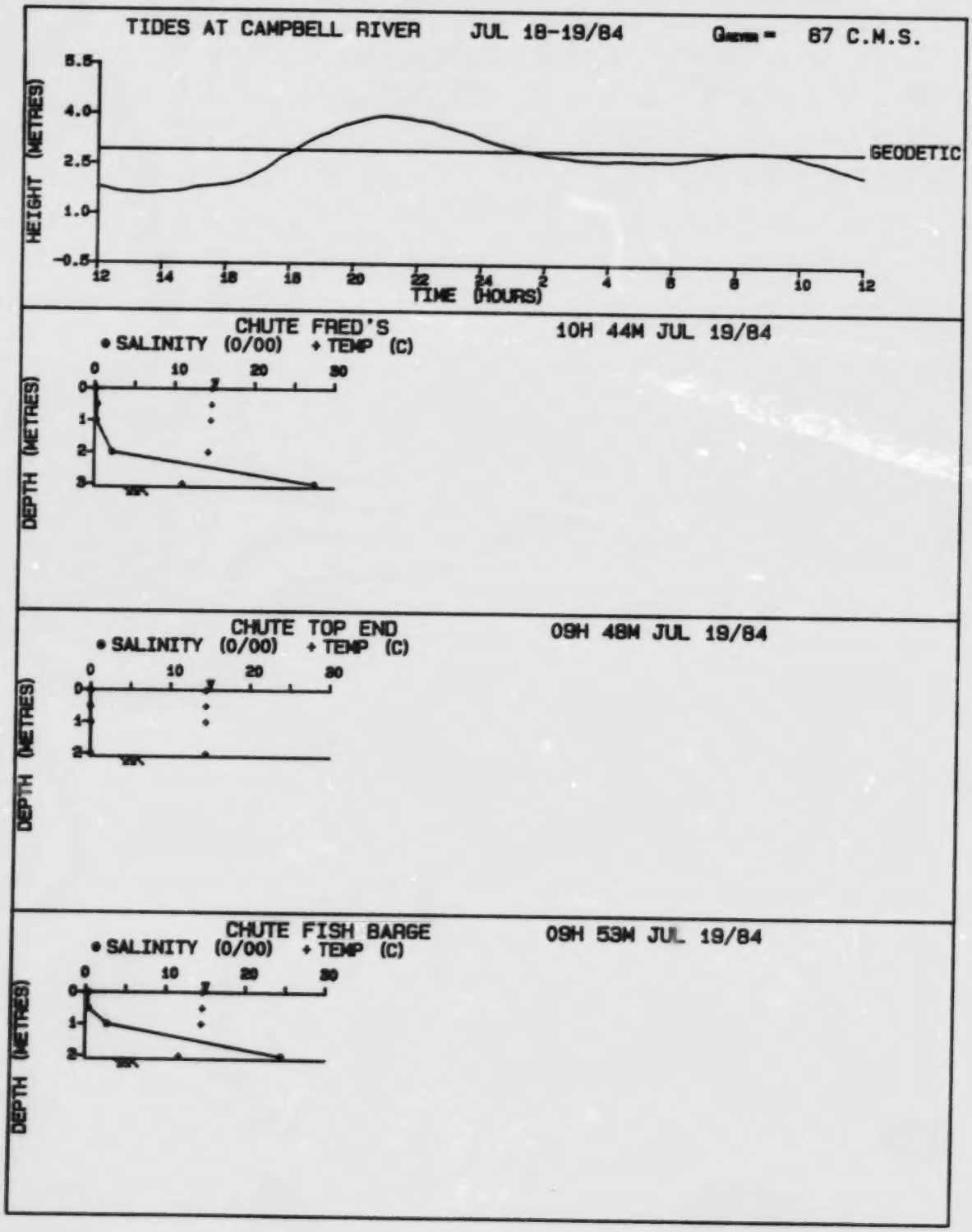
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



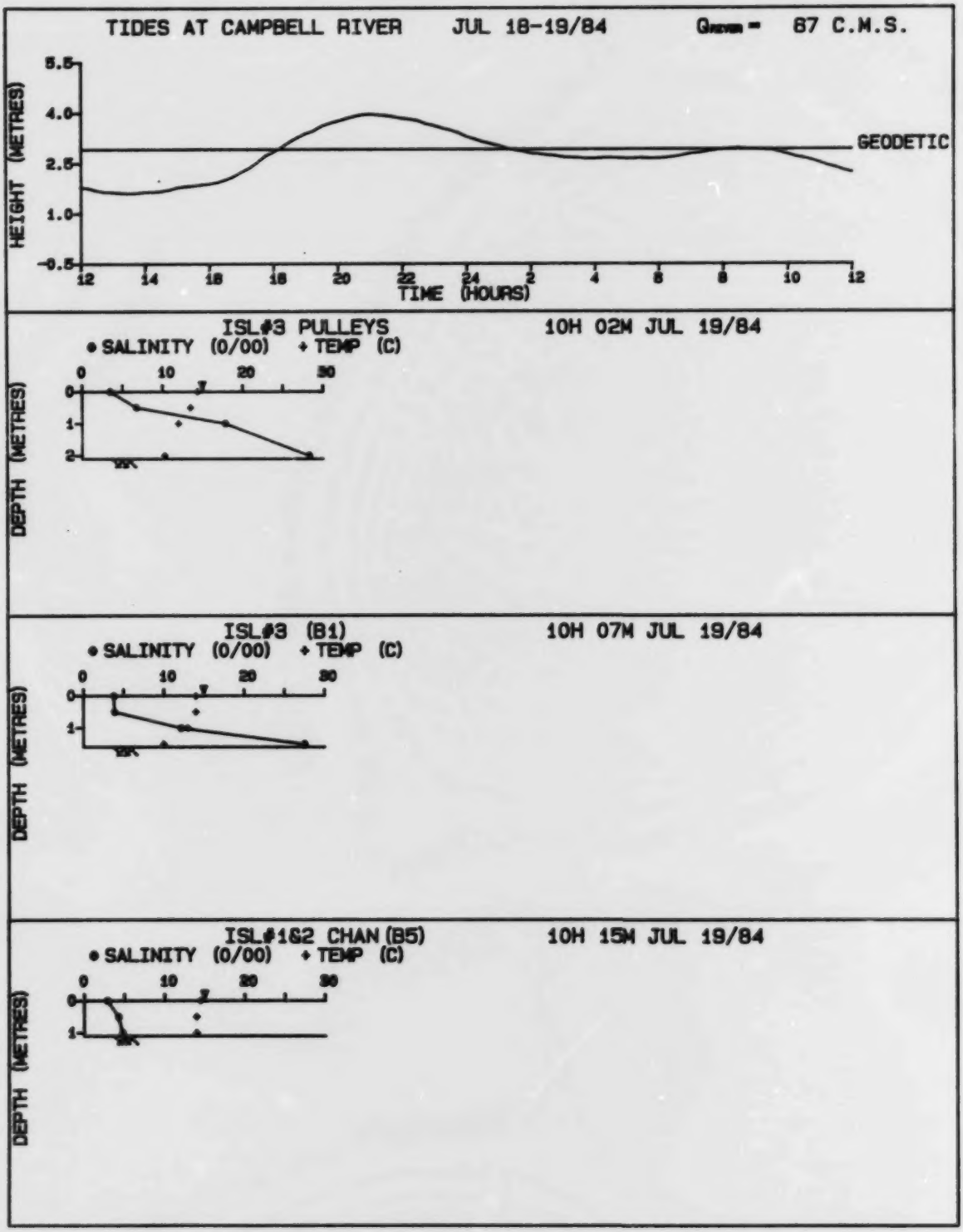
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



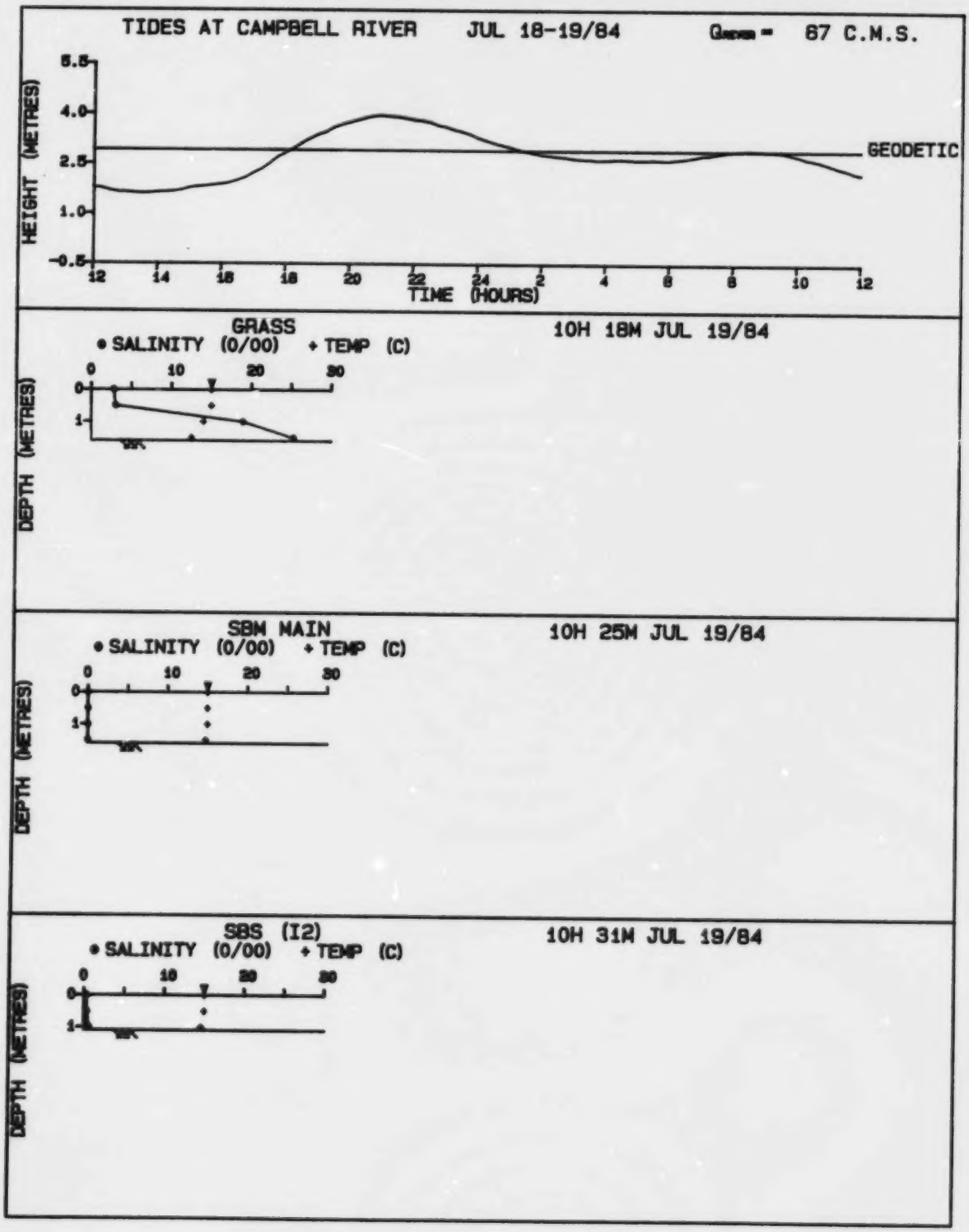
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



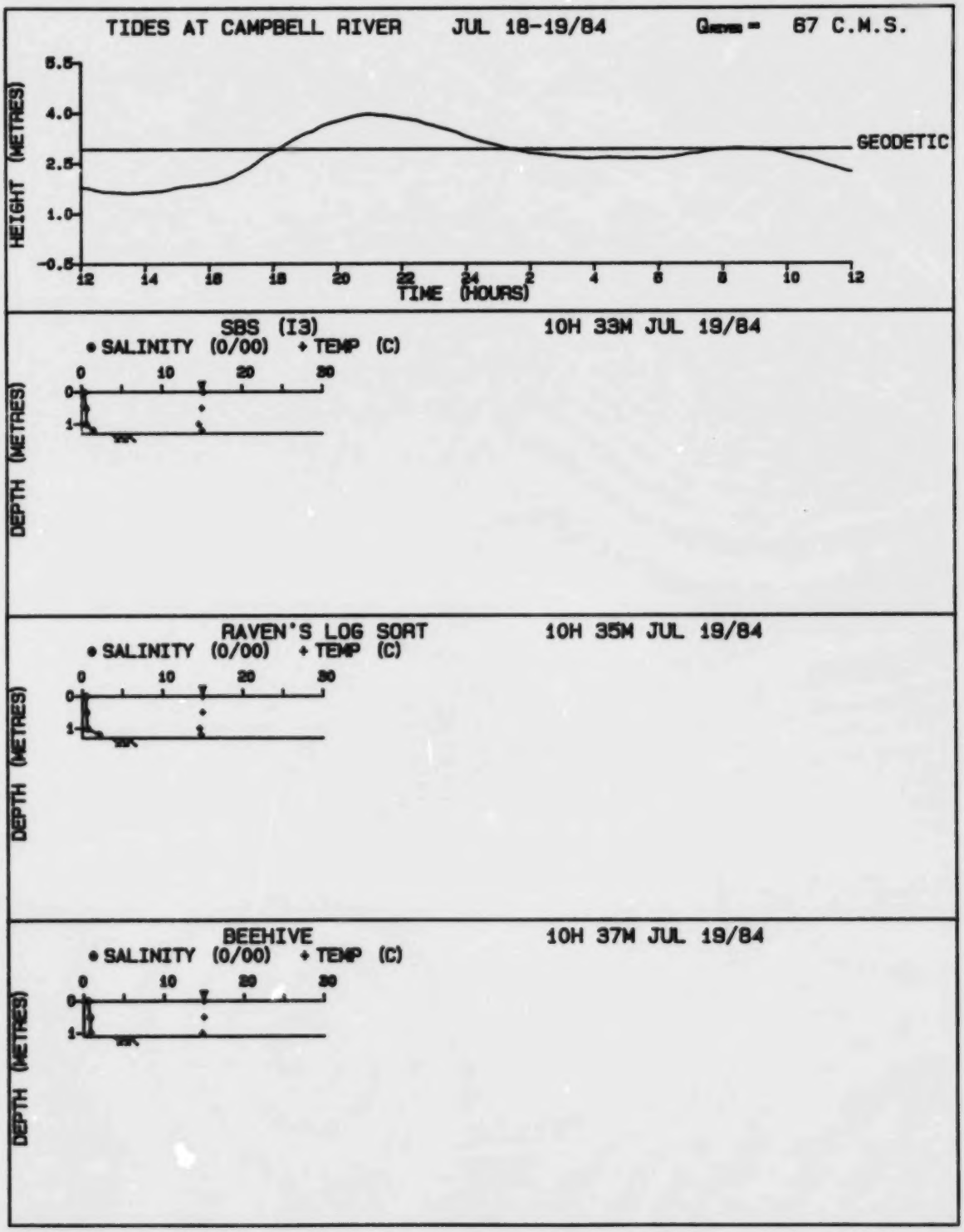
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER


TIDES AT CAMPBELL RIVER JUL 18-19/84 Q = 87 C.M.S.
HEIGHT (METRES)
5.5
4.0
2.5
1.0
-0.5
GEODETIC
12 14 16 18 20 22 24 2 4 6 8 10 12
TIME (HOURS)
SBS (I3) 10H 33M JUL 19/84
• SALINITY (0/00) + TEMP (C)
0 10 20 30
DEPTH (METRES)
RAVEN'S LOG SORT 10H 35M JUL 19/84
• SALINITY (0/00) + TEMP (C)
0 10 20 30
DEPTH (METRES)
BEEHIVE 10H 37M JUL 19/84
• SALINITY (0/00) + TEMP (C)
0 10 20 30
DEPTH (METRES)

JUL 30/84

RIVER DISCHARGE = 100 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	13H 03M	.0	1.4	16.8		
		.6	2.2	16.4		
MOTHER RAMP	13H 16M	.0	3.0	16.8		
		.5	7.0	16.8		
		1.0	14.6	14.8		
LOG BASIN	13H 21M	.0	4.9	18.5		
		.5	10.3	16.3		
		1.0	25.3	12.5		
		2.0	27.6	11.3		
		3.0	27.8	10.7		
		4.0	28.2	10.5		
SPIT FLOAT (A1)	13H 32M	.0	1.4	16.3		
		.5	1.7	16.3		
		1.0	3.0	16.2		
		1.5	15.0	14.8		
FISH STN WHARF	13H 53M	.0	.1	15.3		
		.5	.1	15.3		
		1.0	.1	15.3		
		1.5	.1	15.2		
NBM MAIN	13H 59M	.0	.1	15.3		
		.5	.1	15.0		
		1.0	.1	15.0		
		2.0	.1	15.0		
NBM	14H 03M	.0	1.2	16.3		
		.5	1.4	16.8		
		1.0	1.7	16.0		
SBS (I2)	14H 10M	.0	1.4	?		
		.3	2.4	18.8		
SBS (I3)	14H 13M	.0	1.0	?		
		.5	12.9	14.0		

JUL 30/84 RIVER DISCHARGE = 100 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
RAVEN'S LOG SORT	14H 21M	.0	1.2	?		
		.5	9.4	17.0		
BEEHIVE	14H 23M	.0	1.1	?		
		.5	16.4	17.0		
CHUTE TOP TAG	14H 40M	.0			.50	E
TYEE PT	15H 03M	.0	.1	15.0		
		.5	.2	14.8		
		1.0	2.0	14.5		
		2.0	26.4	11.0		
		3.0	27.9	11.8		
		4.0	27.9	11.0		
SPIT FLOAT (A1)	15H 08M	.0			.00	
FISH STN WHARF	15H 21M	.0	.1	15.6		
		.5	.1	15.0		
		1.0	.1	15.0		
		2.0	.1	15.0		
TYEE PT	18H 40M	.0	6.1	15.5	.20	E
		.5	19.3	13.3	.20	E
		1.0	21.2	12.5	.40	F
		2.0	27.6	12.0	.40	F
		3.0	27.6	12.0	.40	F
		4.0	28.3	11.0	.40	F
		5.0	28.3	11.0		
RANGE MARKERS	18H 48M	.0	1.4	14.5	.60	E
		.5	6.1	14.0	.40	E
		1.0	11.5	13.5	.20	E
		2.0	28.3	11.8	.20	F
		3.0	28.7	11.0	.20	F
		3.5	28.7	11.0	.20	F
FISH STN WHARF	19H 10M	.0	.3	14.3	.70	E
		.5	.9	14.2	.70	E
		1.0	12.9	13.0	.30	E
		2.0	28.3	11.8	.10	F

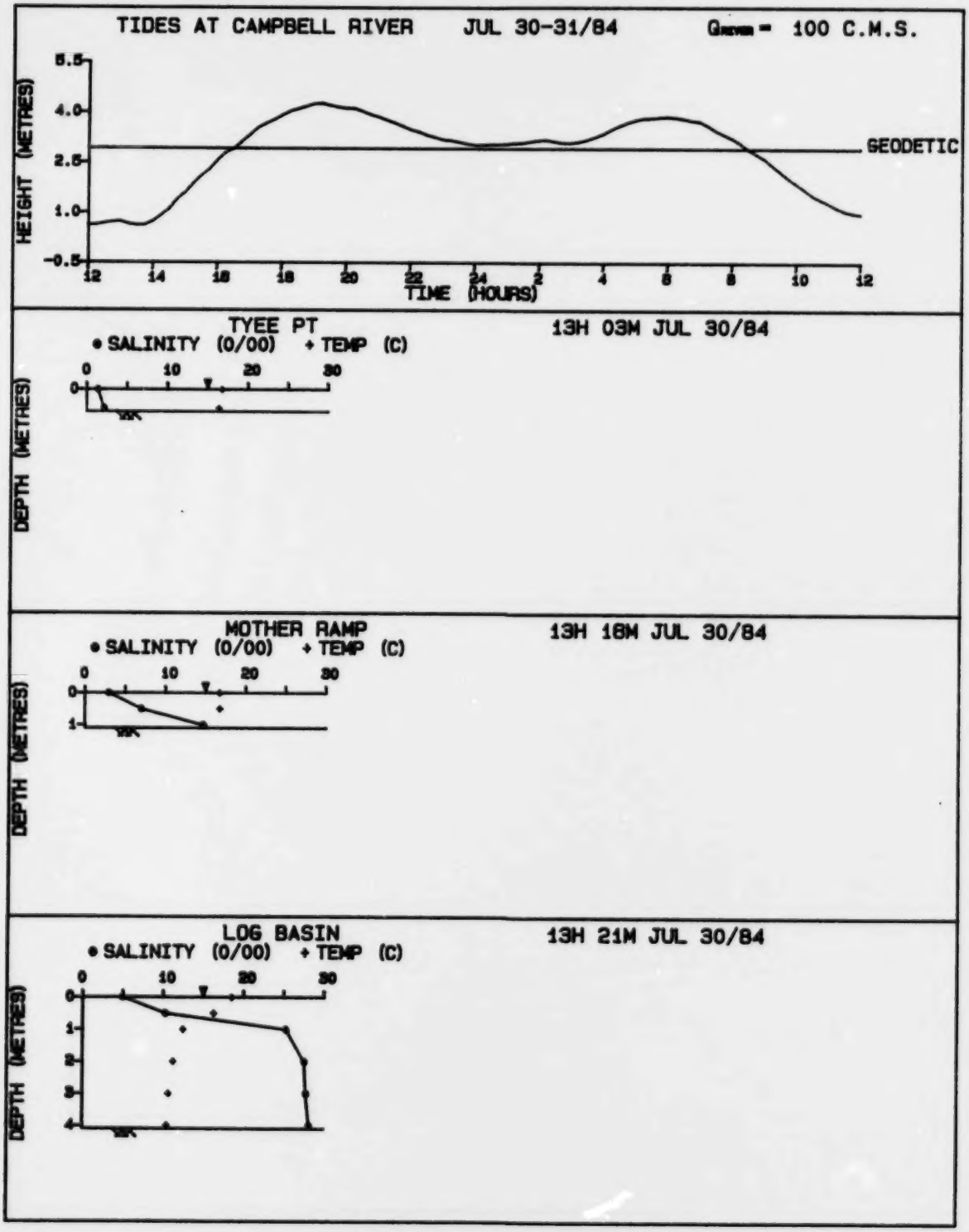
JUL 30/84 RIVER DISCHARGE = 100 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	19H 10M	3.0	28.3	11.0	.20	F
		4.0	28.9	10.8	.20	F
		5.0	29.1	10.5	.20	F
NBM MAIN	19H 17M	.0	.1	14.3	.60	E
		.5	.4	14.3	.60	E
		1.0	.8	14.2	.60	E
		2.0	15.1	12.5	.60	E
		3.0	28.3	11.0	.05	F
		4.0	29.1	10.6	.10	F
		4.5	29.1	11.0		
SBM MAIN	19H 26M	.0	.1	14.3	.60	E
		.5	.1	14.3	.60	E
		1.0	.2	14.2	.60	E
		2.0	1.6	14.2	.60	E
		3.0	27.6	11.0	.04	E
		3.2			.01	E
PILE BREAKWATER	19H 39M	.0	.0	14.2		
		1.0	.0	14.2		
		2.0	.0	14.2		
		3.0	.0	14.2		
		4.0	.0	14.2		
		5.0	.0	14.2		
ORANGE CRANE	19H 43M	.0	.0	14.1	.50	E
		.5	.0	14.1	.50	E
		1.0	.0	14.1	.40	E
		2.0	.2	14.1	.40	E
		2.5	2.3	14.0	.30	E
TYEE PT	19H 55M	.0	.4	14.2	.50	E
		.5	12.9	12.0	.20	E
		1.0	27.6	10.5	.20	E
		2.0	27.9	10.5	.08	E
		3.0	28.3	10.2	.08	E
		4.0	28.5	10.0	.04	E
		5.0	28.7	10.0		
		6.0	28.3	10.0		
FISH STN WHARF	20H 07M	.0	1.0	14.3	.60	E
		.5	1.3	14.5	.60	E

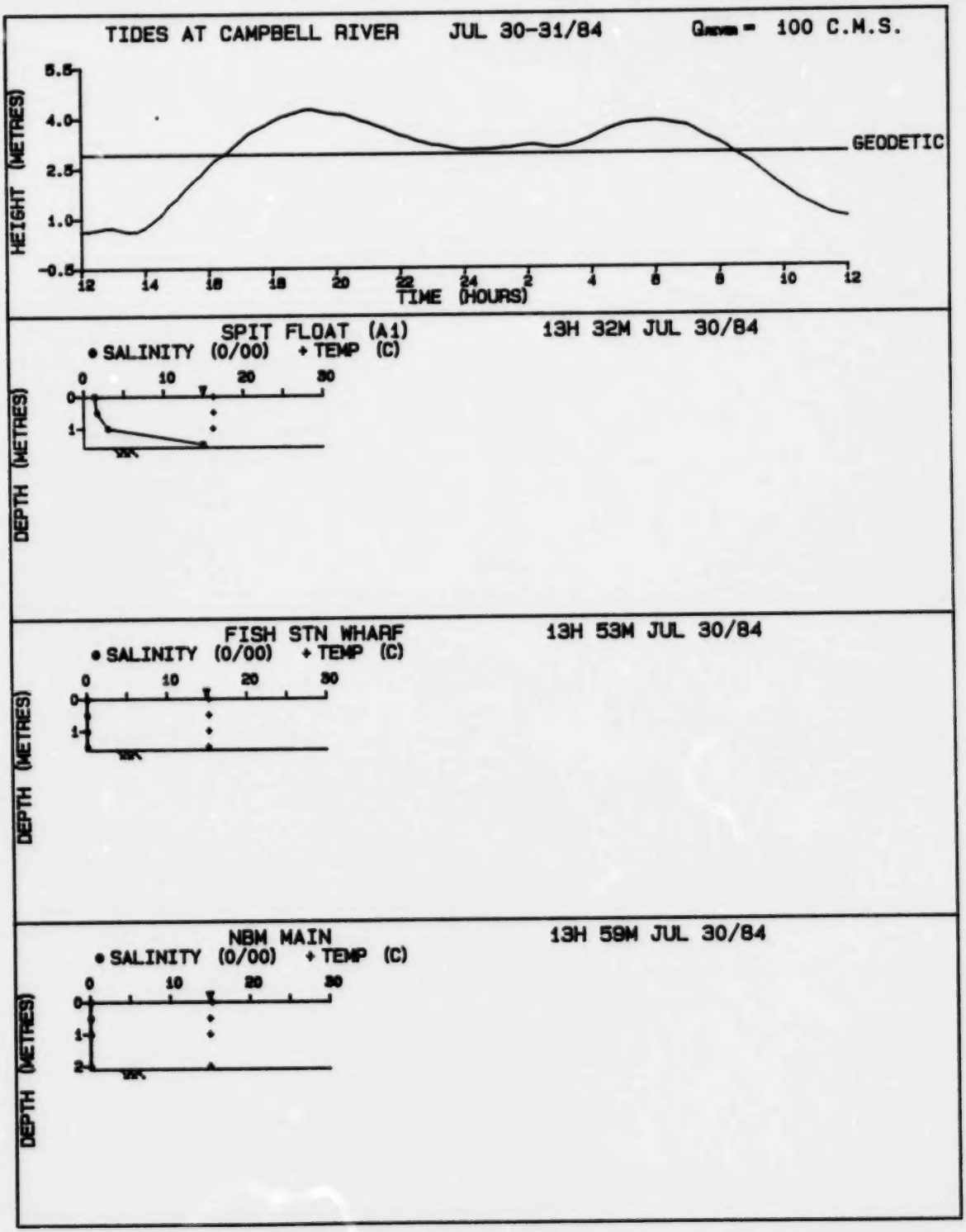
JUL 30/84 RIVER DISCHARGE = 100 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	20H 07M	1.0	12.9	13.0	.60	E
		2.0	22.6	11.5	.10	F
		3.0	28.3	10.5	.10	F
		4.0	28.7	10.2	.10	F
		5.0	28.7	10.2	.10	F
NBM MAIN	20H 14M	.0	.3	14.0	.60	E
		.5	.7	14.0	.60	E
		1.0	1.1	14.0	.60	E
		2.0	13.9	13.0	.20	E
		3.0	27.6	10.5	.20	F
		4.0	28.3	10.2	.20	F
SBM MAIN	20H 22M	.0	.0	14.0	.30	E
		.5	.0	14.0	.30	E
		1.0	.3	14.0	.40	E
		2.0	4.8	14.0	.50	E
		3.0	8.7	10.8	.10	E
ORANGE CRANE	20H 27M	.0	.0	14.0	.60	E
		.5	.0	14.0	.60	E
		1.0	.0	14.0	.65	E
		2.0	.2	14.0	.60	E
		3.0	4.8	13.5	.60	E

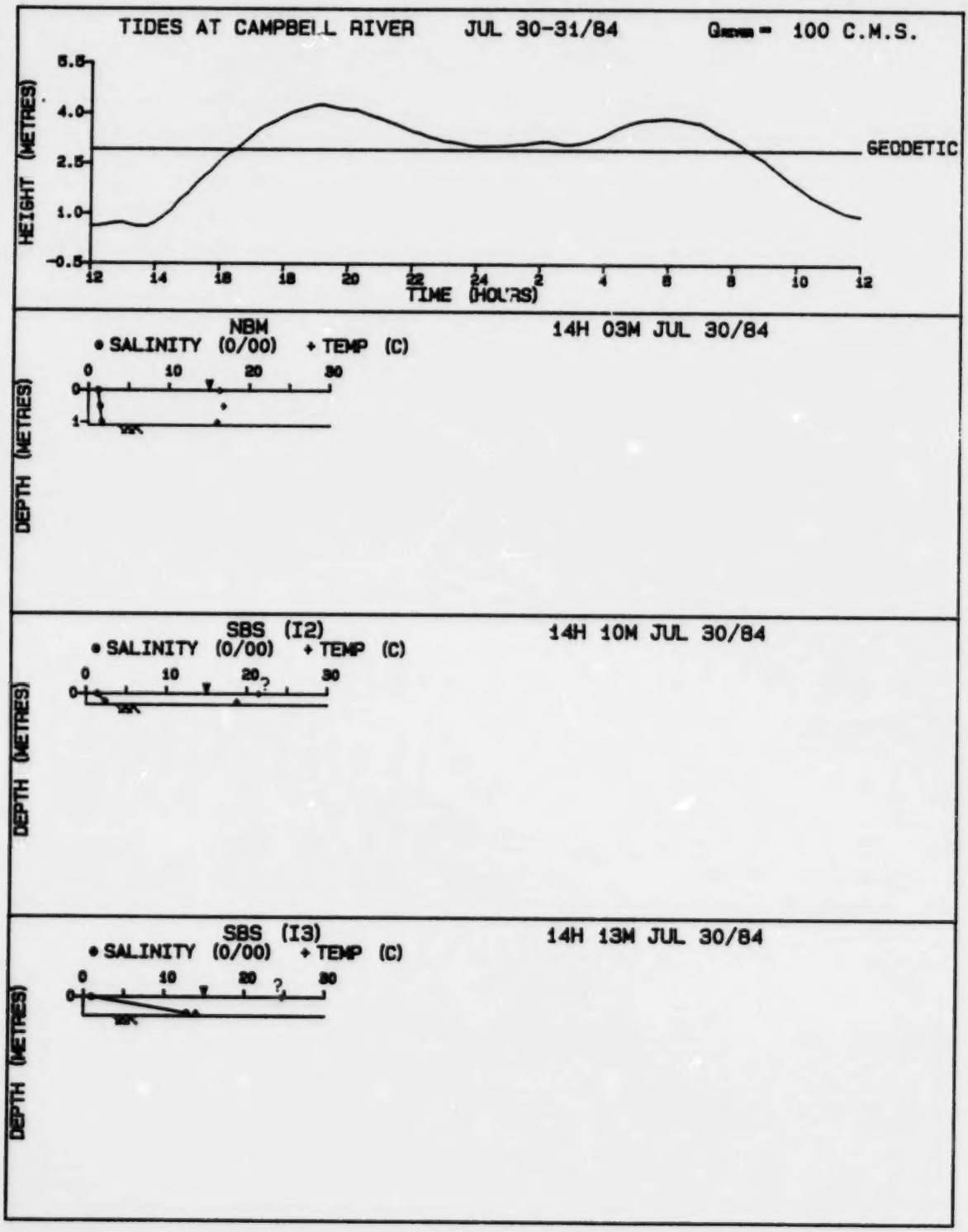
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



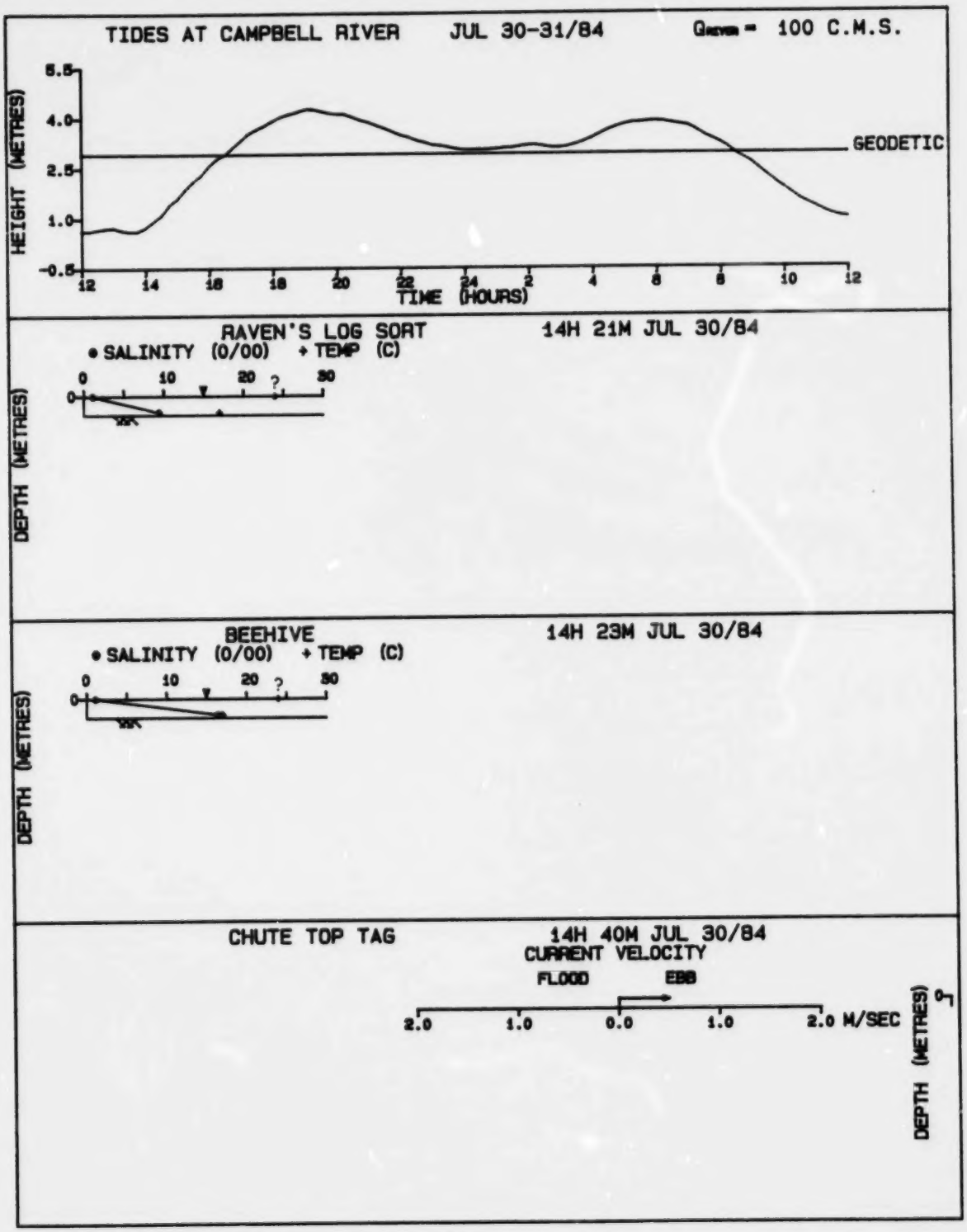
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



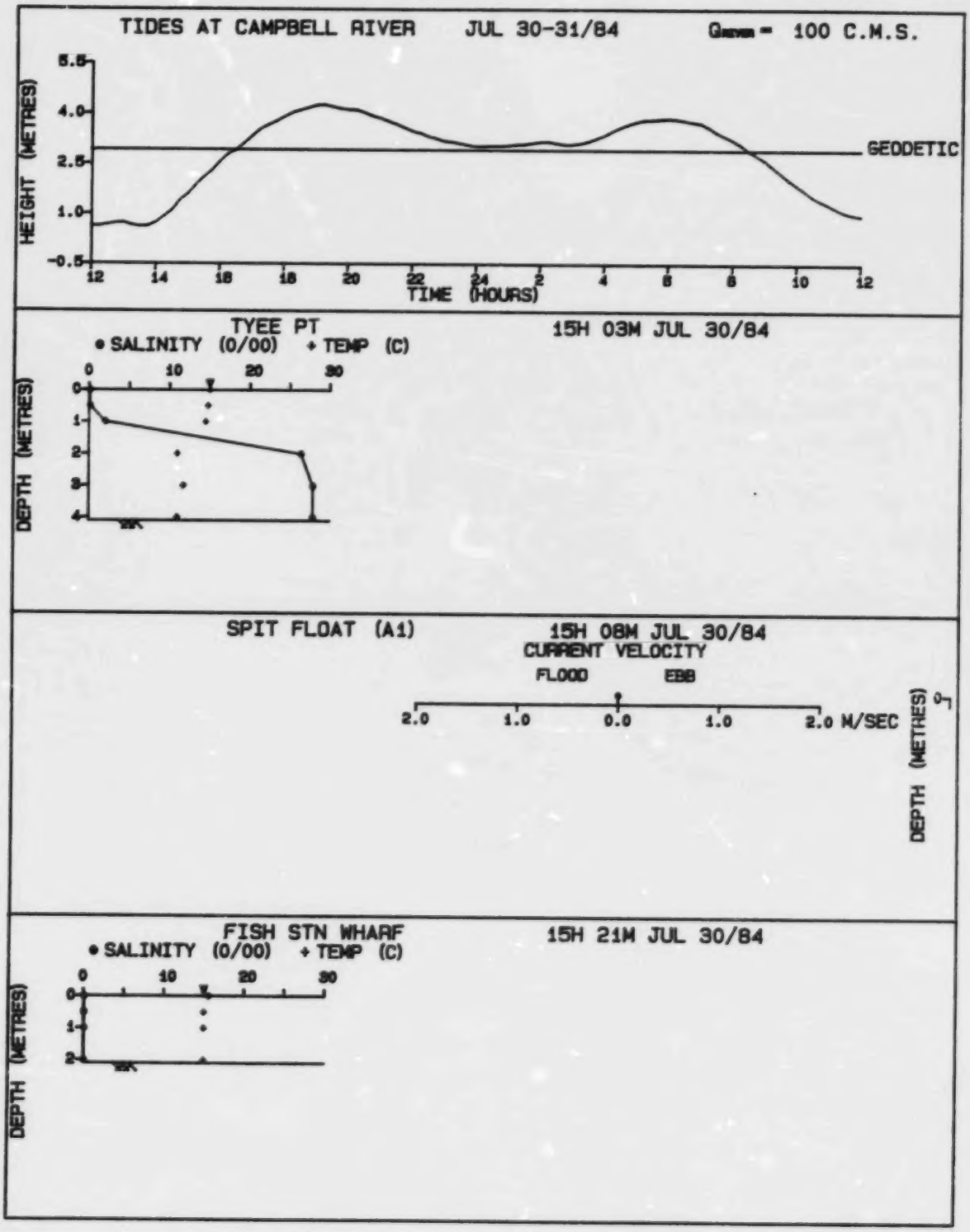
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



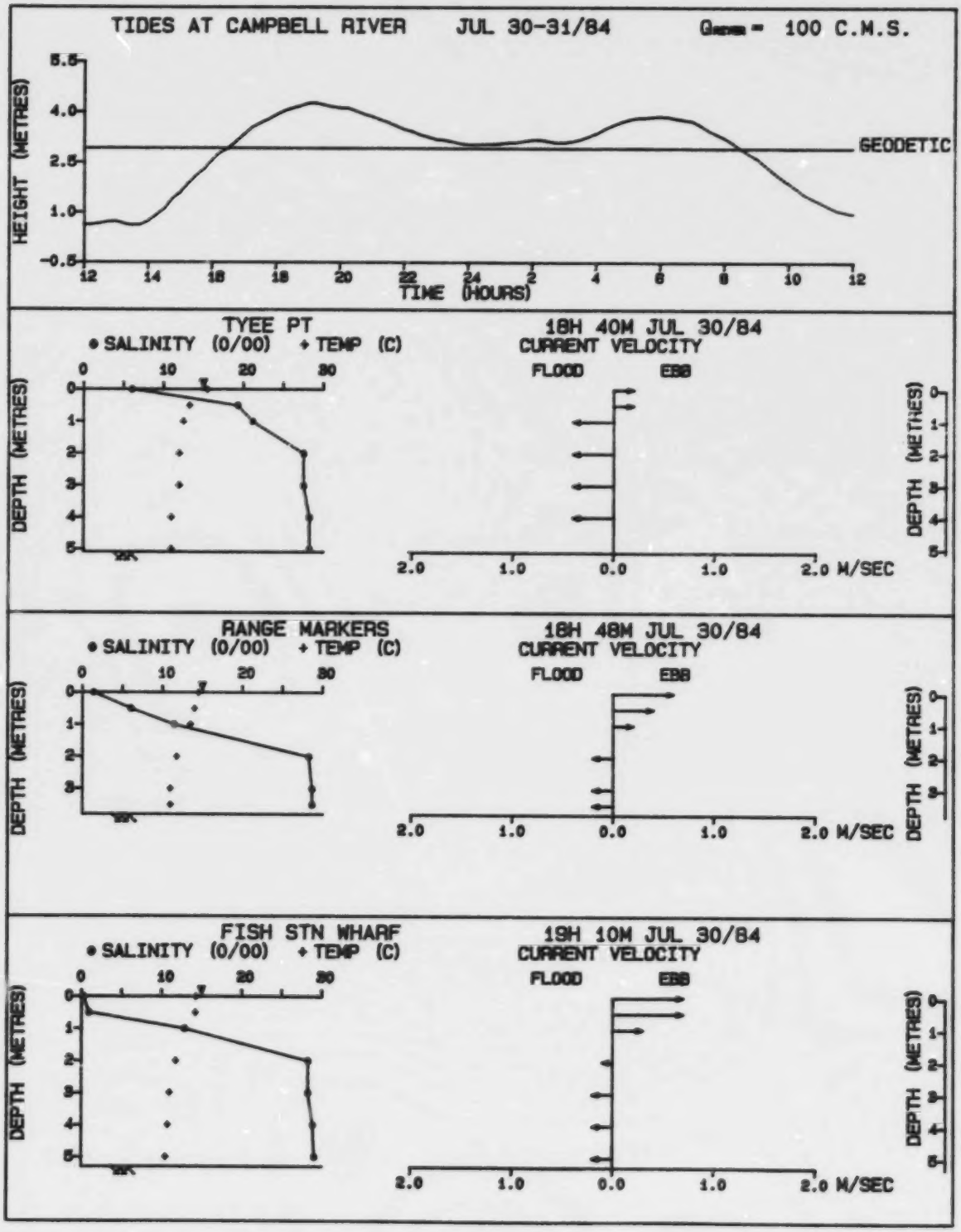
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



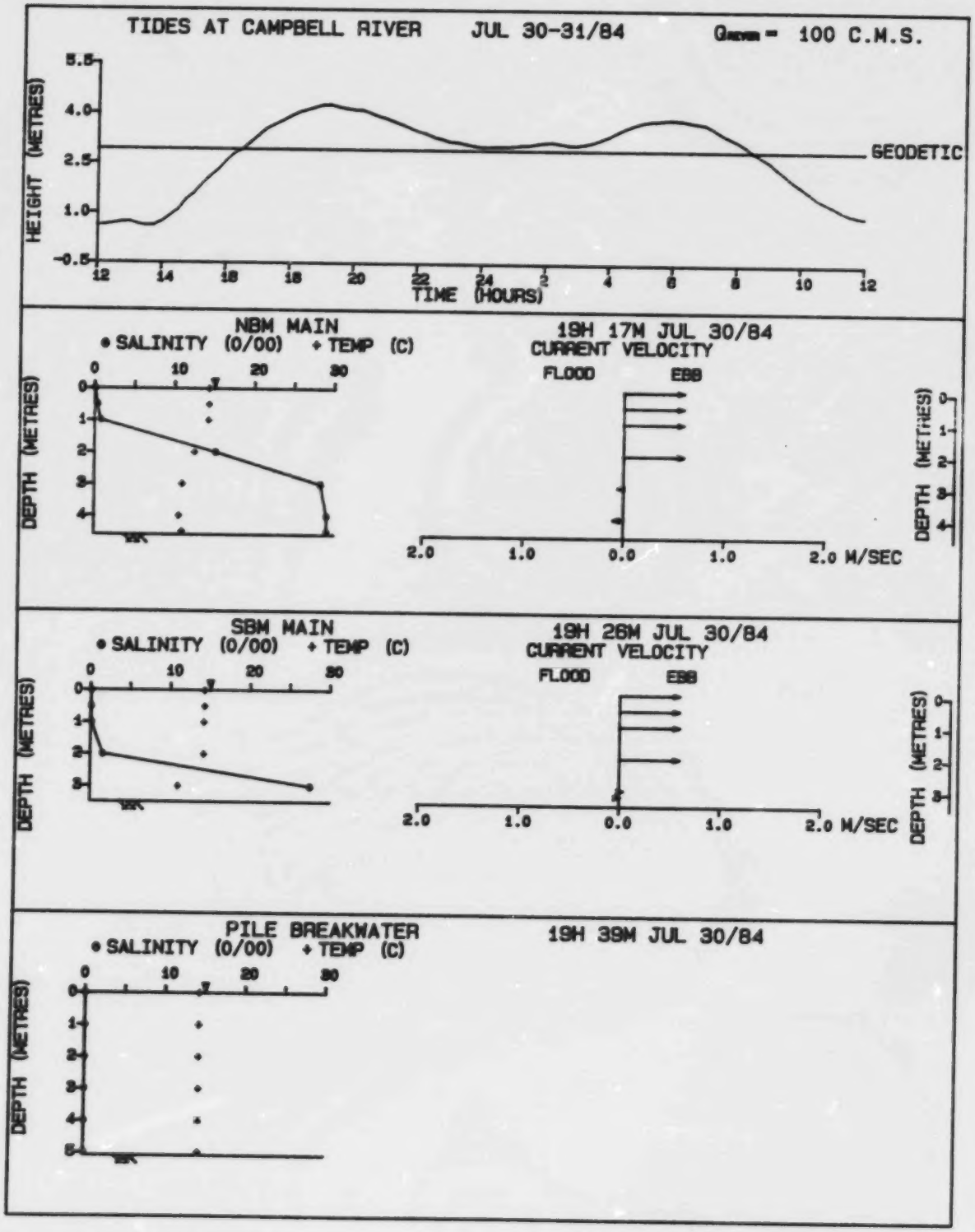
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



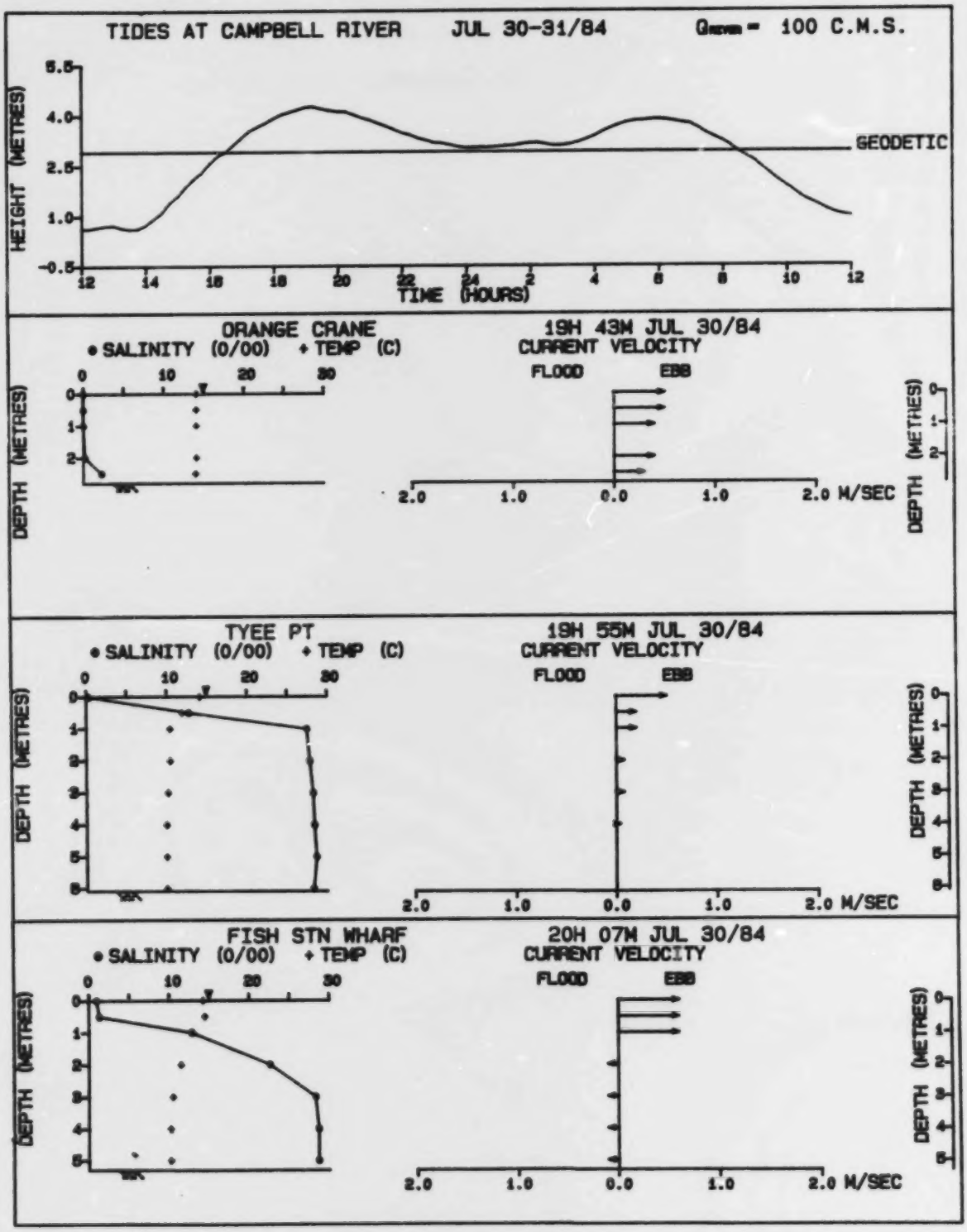
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



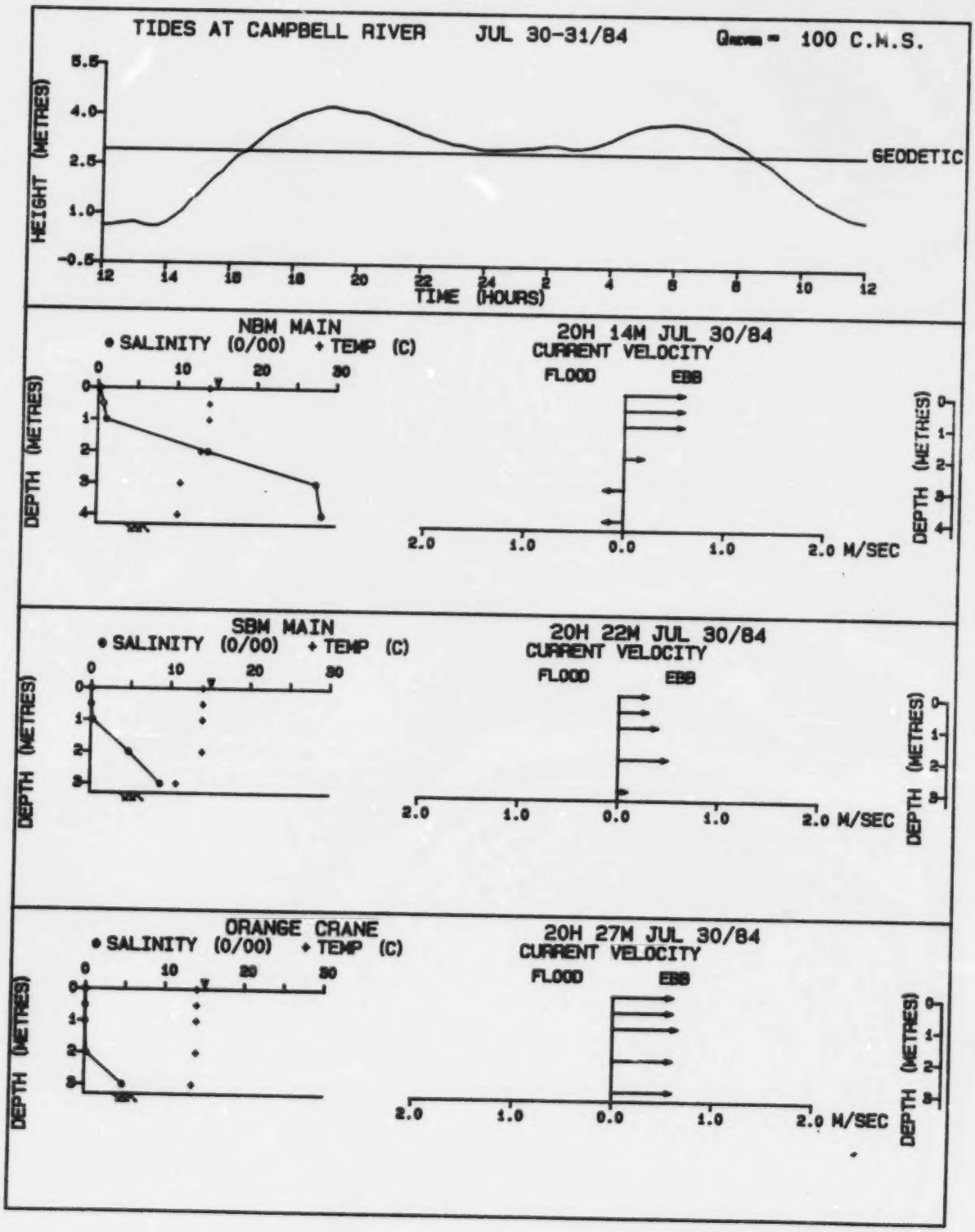
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



JUL 31/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
PILE BREAKWATER	07H 08M	.0	.0	15.5	.60	E
		.5	.0	15.5	.50	E
		1.0	.0	15.5	.50	E
		2.0	.0	15.5	.40	E
ORANGE CRANE	07H 13M	.0	.0	15.5	.60	E
		.5	.0	15.5	.60	E
		1.0	.0	15.5	.60	E
		2.0	.0	15.5	.60	E
		3.0	.0	15.5	.60	E
SBM MAIN	07H 17M	.0	.0	15.5	.60	E
		.5	.0	15.5	.60	E
		1.0	.1	15.5	.60	E
		2.0	.2	15.5	.50	E
		3.0	16.4	13.5	.30	E
FISH BARGE	07H 22M	.0	.0	15.5	.80	E
		.5	.1	15.5	.70	E
		1.0	.2	15.5	.70	E
		2.0	12.9	14.0	.70	E
		3.0	27.6	11.0	.10	E
		4.0	28.3	10.6	.10	E
NBM MAIN	07H 32M	.0	.1	15.5	.70	E
		.5	.3	15.5	.60	E
		1.0	.4	15.5	.60	E
		2.0	7.7	14.3	.40	E
		3.0	24.5	11.5	.10	E
		4.0	28.3	11.5	.20	E
FISH STN WHARF	07H 40M	.0	.6	15.5	.60	E
		.5	1.0	15.5	.60	E
		1.0	2.9	15.2	.60	E
		2.0	18.6	12.5	.20	E
		3.0	28.3	10.5	.10	E
		4.0	28.7	10.5	.20	E
		4.5	28.7	10.5		
RANGE MARKERS	07H 50M	.0	1.1	15.2	.70	E
		.5	2.3	15.0	.60	E
		1.0	7.4	14.5	.30	E
		2.0	21.5	12.4	.20	E

JUL 31/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
RANGE MARKERS	07H 50M	3.0	28.3	10.5	.10	E
TYEE PT	07H 56M	.0	11.5	14.0	.40	E
		.5	23.8	12.0	.20	F
		1.0	28.3	10.5	.10	F
		2.0	28.3	10.5	.20	F
		3.0	28.7	10.5	.10	F
		4.0	28.7	10.5	.10	F
		5.0	29.1	10.5		
SPIT FLOAT (A1)	08H 04M	.0	3.8	14.8	.20	E
		.5	3.8	14.6	.30	E
		1.0	8.7	14.0	.30	E
		2.0	27.9	11.0	.20	E
		3.0	28.7	10.5	.10	E
		4.0	28.7	10.5	.00	
MOTHER RAMP	08H 14M	.0	3.7	15.0	.30	E
		.5	3.7	15.0	.30	E
		1.0	3.8	15.0	.40	E
		2.0	24.5	12.3	.30	E
		3.0	27.6	11.0	.20	E
LOG BASIN	08H 23M	.0	3.1	15.2		
		.5	3.2	15.0		
		1.0	4.3	14.8		
		2.0	26.8	11.8		
		3.0	27.7	11.2		
		4.0	28.0	10.8		
		5.0	28.3	10.8		
		6.0	28.5	10.5		
ISL#3 PULLEY	08H 38M	.0	2.4	15.5	.40	E
		.5	3.9	15.0	.40	E
		1.0	6.1	14.5	.40	E
		2.0	28.3	11.0	.05	E
PILE BREAKWATER	08H 51M	.0	.2		1.30	E
		.5	.2			
		1.0	.2			

JUL 31/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ORANGE CRANE	08H 55M	.0	.0	16.5	.60	E
		.5	.0	16.5		
		1.0	.0	16.0		
		1.5	.0	15.8		
SBM MAIN	08H 59M	.0	.0	15.8	.60	E
		.5	.0	15.8	.70	E
		1.0	.0	15.6	.70	E
		2.0	.0	15.6	.40	E
FISH BARGE	09H 04M	.0	.0	15.6	.80	E
		.5	.1	15.6	.80	E
		1.0	.1	15.6	.80	E
		2.0	.1	15.6	.40	E
NBM MAIN	09H 10M	.0	.0	16.0	.60	E
		.5	.2	16.0	.60	E
		1.0	.2	16.0	.60	E
		2.0	.2	15.8	.60	E
		3.0	10.1	14.3		
FISH STN WHARF	09H 17M	.0	.1	15.5	.80	E
		.5	.3	15.6	.80	E
		1.0	.6	15.5	.90	E
		2.0	14.3	13.5	.80	E
		3.0	27.9	10.5	.20	E
RANGE MARKERS	09H 25M	.0	1.4	15.5	1.00	E
		.5	2.9	15.5	.90	E
		1.0	7.7	14.5	.70	E
		2.0	19.3	12.5	.60	E
TYEE PT	09H 30M	.0	2.6	15.6	.70	E
		.5	3.4	15.6	.70	E
		1.0	5.4	15.0	.60	E
		2.0	12.9	14.0		
		3.0	24.9	12.0		
		4.0	26.8	11.3		
		5.0	27.6	11.2		
CHUTE TOP END	09H 53M	.0	.0	15.8	.80	E
		.5	.1	15.6	1.00	E

JUL 31/84 RIVER DISCHARGE = 102 CU.M/SEC

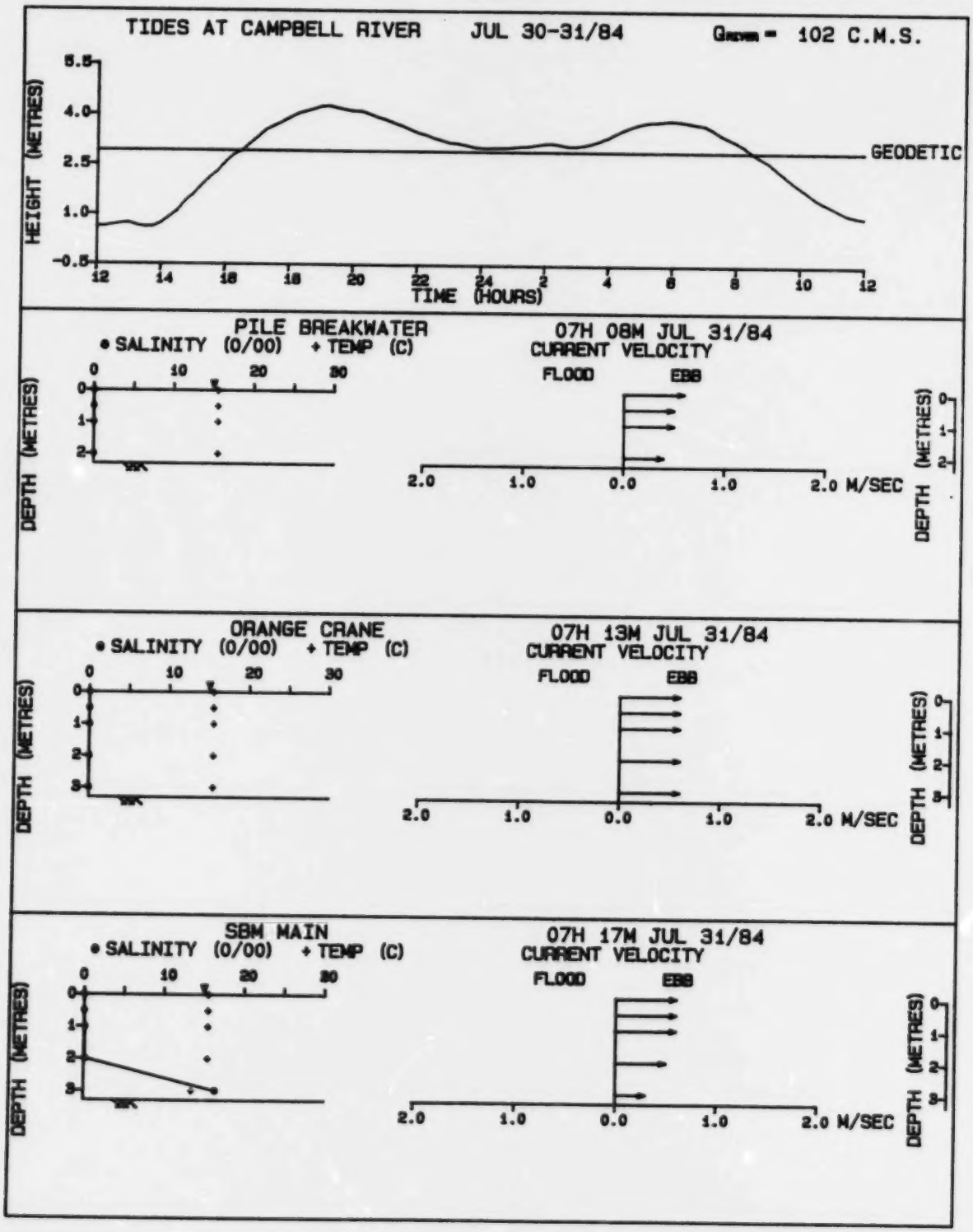
LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE TOP END	09H 53M	1.0	.1	15.5	1.00	E
		2.0	.1	15.5	.70	E
CHUTE SBM	10H 01M	.0	.1	15.8	.60	E
		.5	.1	15.8	.60	E
		1.0	.1	15.5	.80	E
		2.0	.1	15.5	.60	E
CHUTE FISH BARGE	10H 06M	.0	.0	15.6	1.00	E
		.5	.1	15.6		
		1.0	.1	15.6		
		1.5	.1	15.6		
CHUTE TOP END	10H 17M	.0	.1	16.6	1.00	E
SBM MAIN	10H 20M	.0	.0	16.0	1.10	E
		1.0	.1	15.6	1.10	E
FISH BARGE	10H 24M	.0	.0	16.0	.80	E
		.5	.0	16.0	.90	E
		1.0	.1	15.8	.90	E
		1.5	.1	15.8		
NBM MAIN	10H 28M	.0	.1	16.0	1.00	E
		.5	.1	16.0	1.00	E
		1.0	.1	15.5	1.00	E
		2.0	.1	15.8	.90	E
FISH STN WHARF	10H 33M	.0	.1	16.0	.80	E
		.5	.1	16.0	.80	E
		1.0	.4	15.6	.80	E
		2.0	.6	15.8	.70	E
		3.0	.9	15.7		
RANGE MARKERS	10H 39M	.0	.5	15.8	1.00	E
		.5	.5	15.8	1.00	E
		1.0	.5	15.6		
TYEE PT	10H 47M	.0	.3	16.2	.80	E
		.5	.4	16.0	.60	E

JUL 31/84

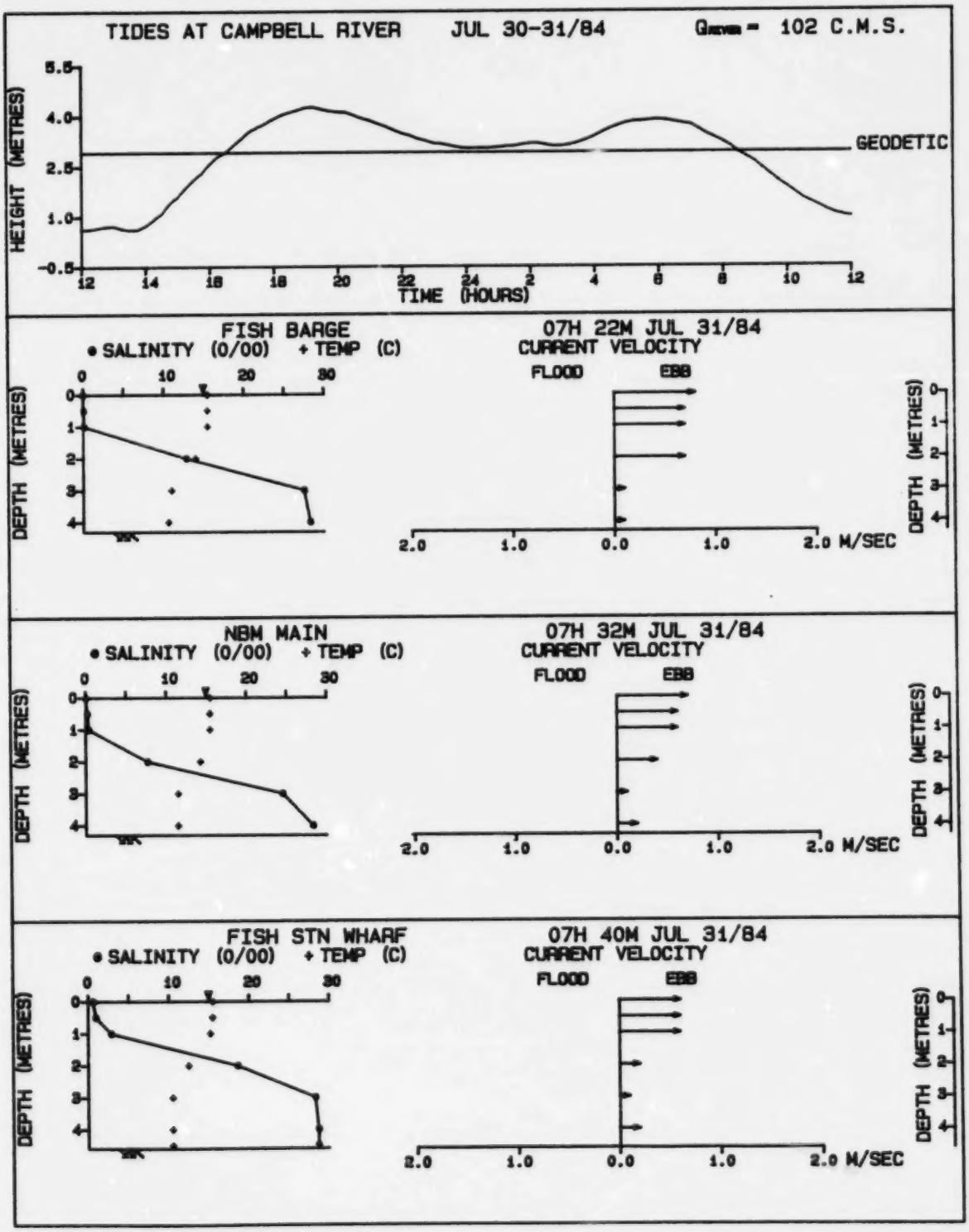
RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	10H 47M	1.0	.5	16.0	.40	E
		1.5	.8	16.0	.40	E
		2.0			.40	E
		3.0			.40	E
		4.0	3.5			
SPIT FLOAT (A2)	10H 55M	.0	.2	15.5	.80	E
		.5	.2	15.5	.70	E
		1.0	.2	15.5		
		2.0	.2	15.5		
RANGE MARKERS	11H 02M	.0	.3	16.0	1.00	E
		.5	.3	16.0	1.00	E
FISH STN WHARF	11H 07M	.0	.1	16.5	.80	E
		.5	.1	16.5	.80	E
		1.0	.1	16.2	.80	E
		2.0	.1	16.2	.80	E
		2.5	.1	15.8		
GULF SIGN	11H 13M	.0	.1	16.0	1.00	E
		.5	.1	15.5	1.00	E
		1.0	.1	15.5	1.00	E
		2.0	.1	15.5	.70	E
RANGE MARKERS	11H 16M	.0	.1	15.5	1.00	E
		.5	.1	15.5		

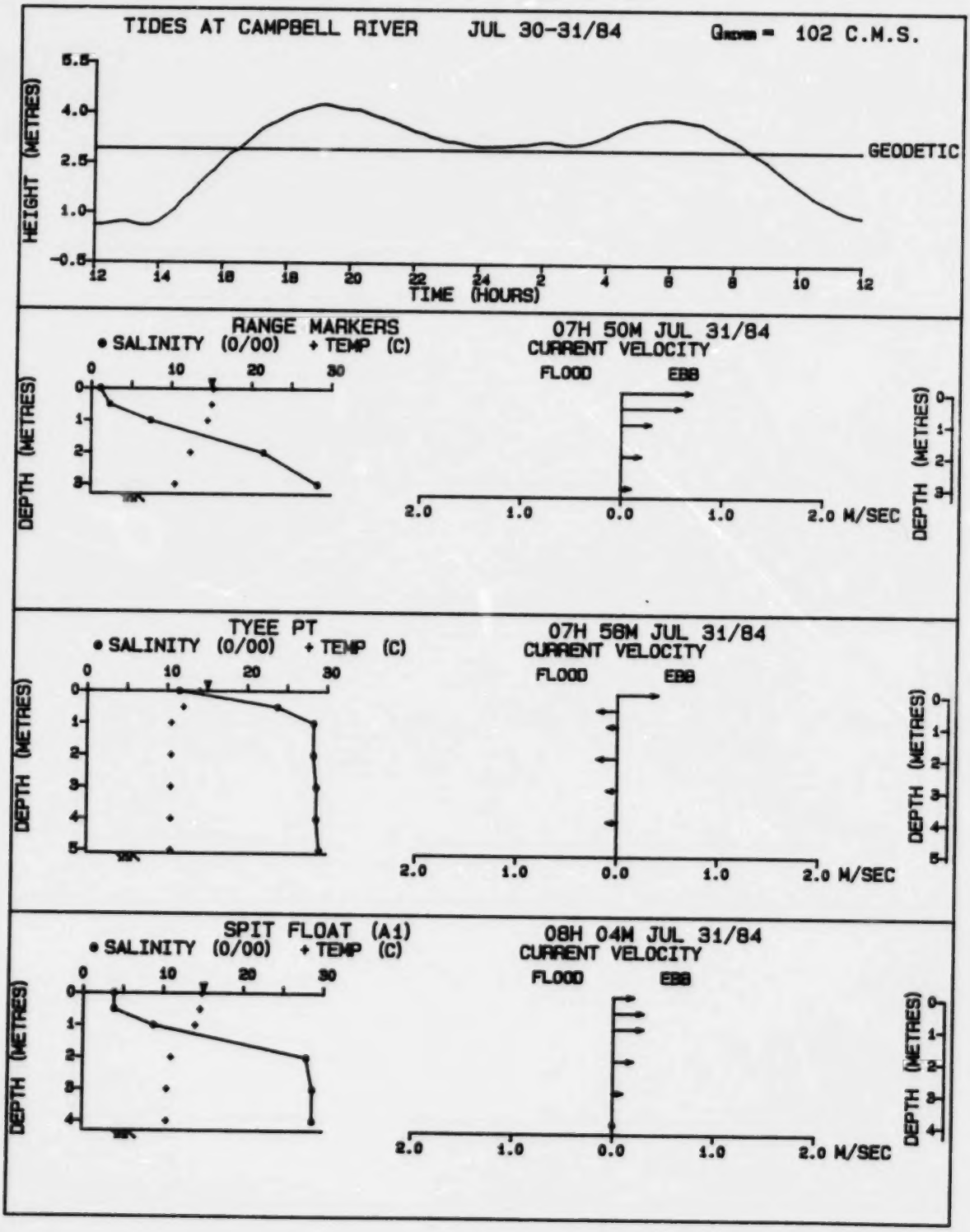
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



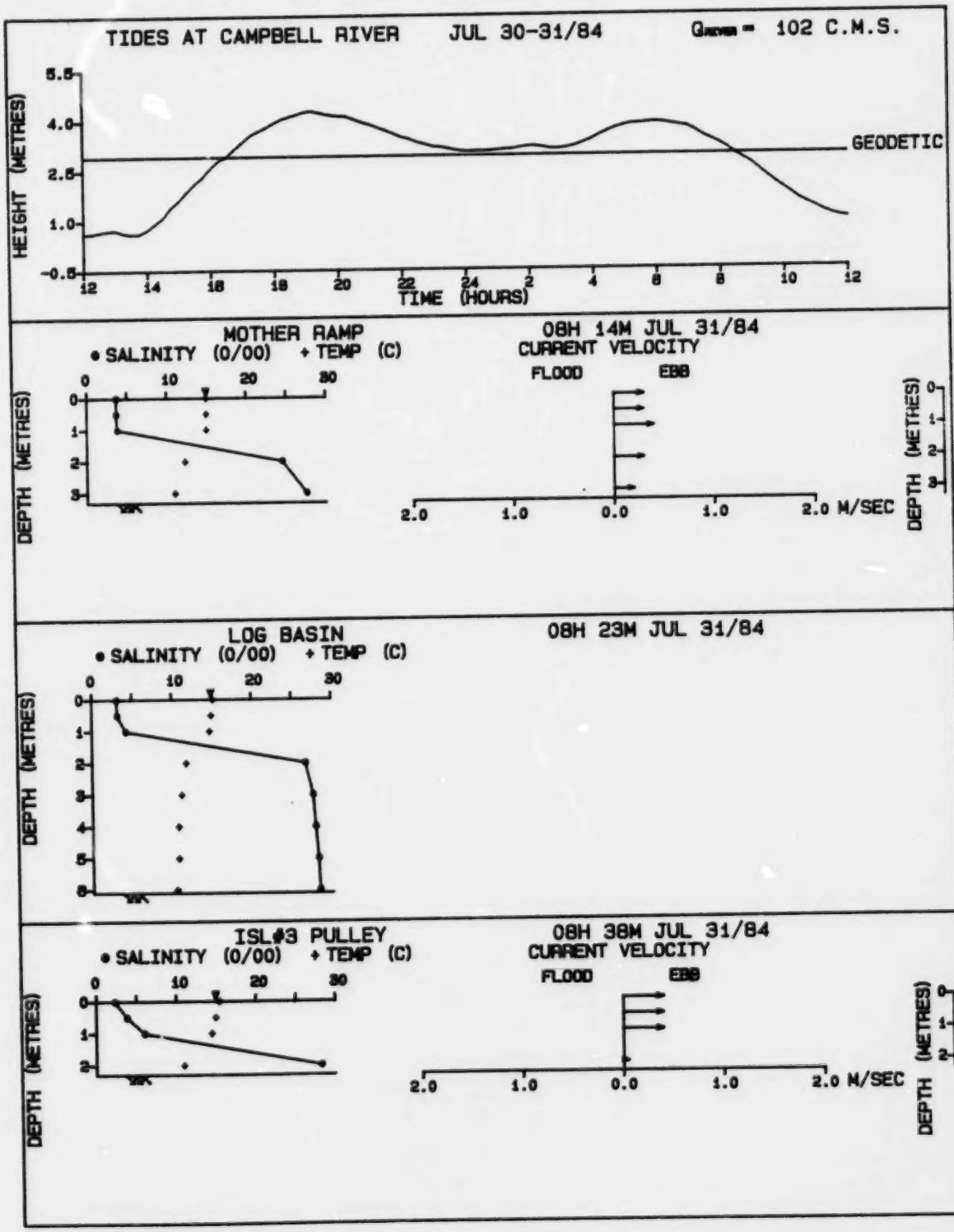
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



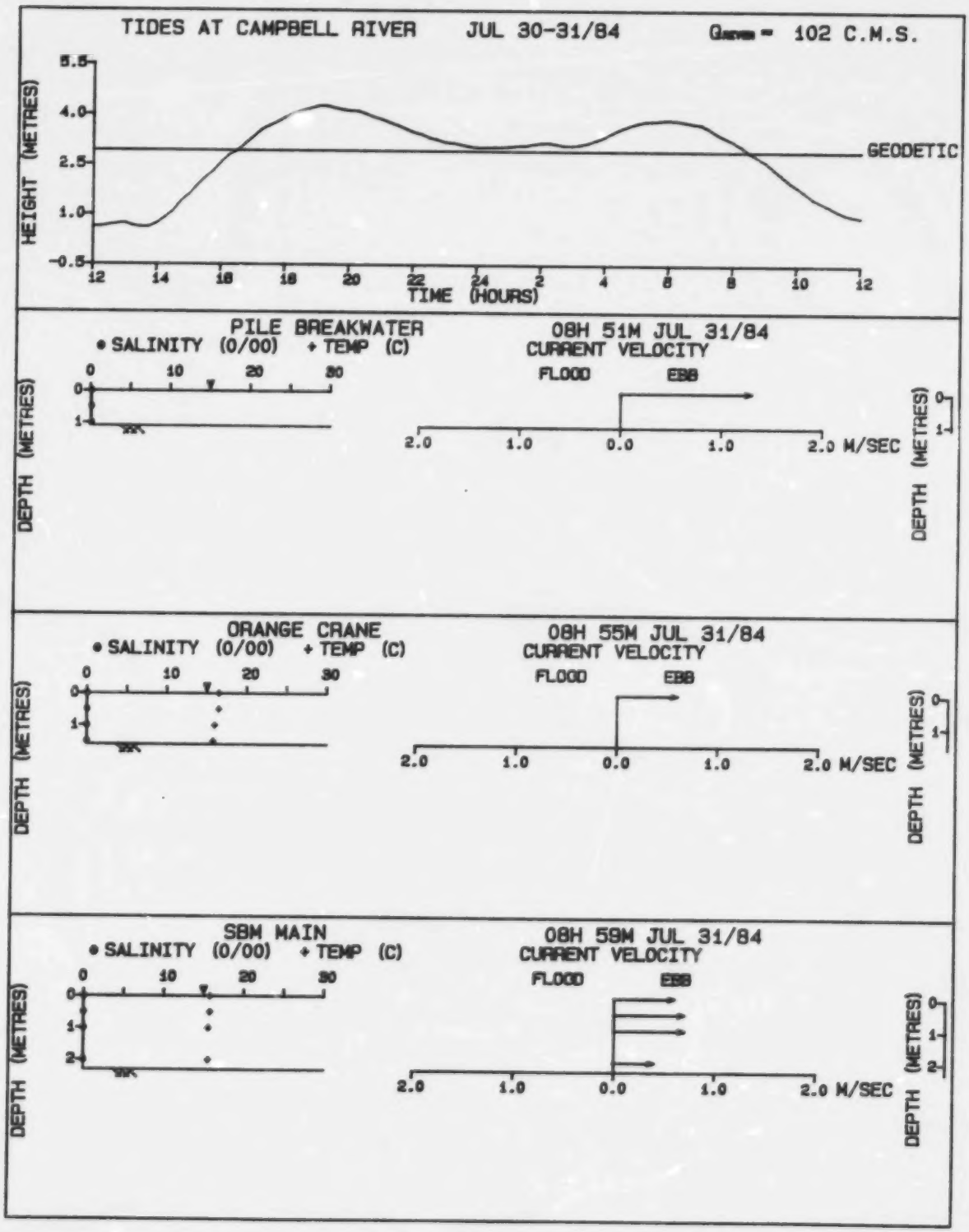
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



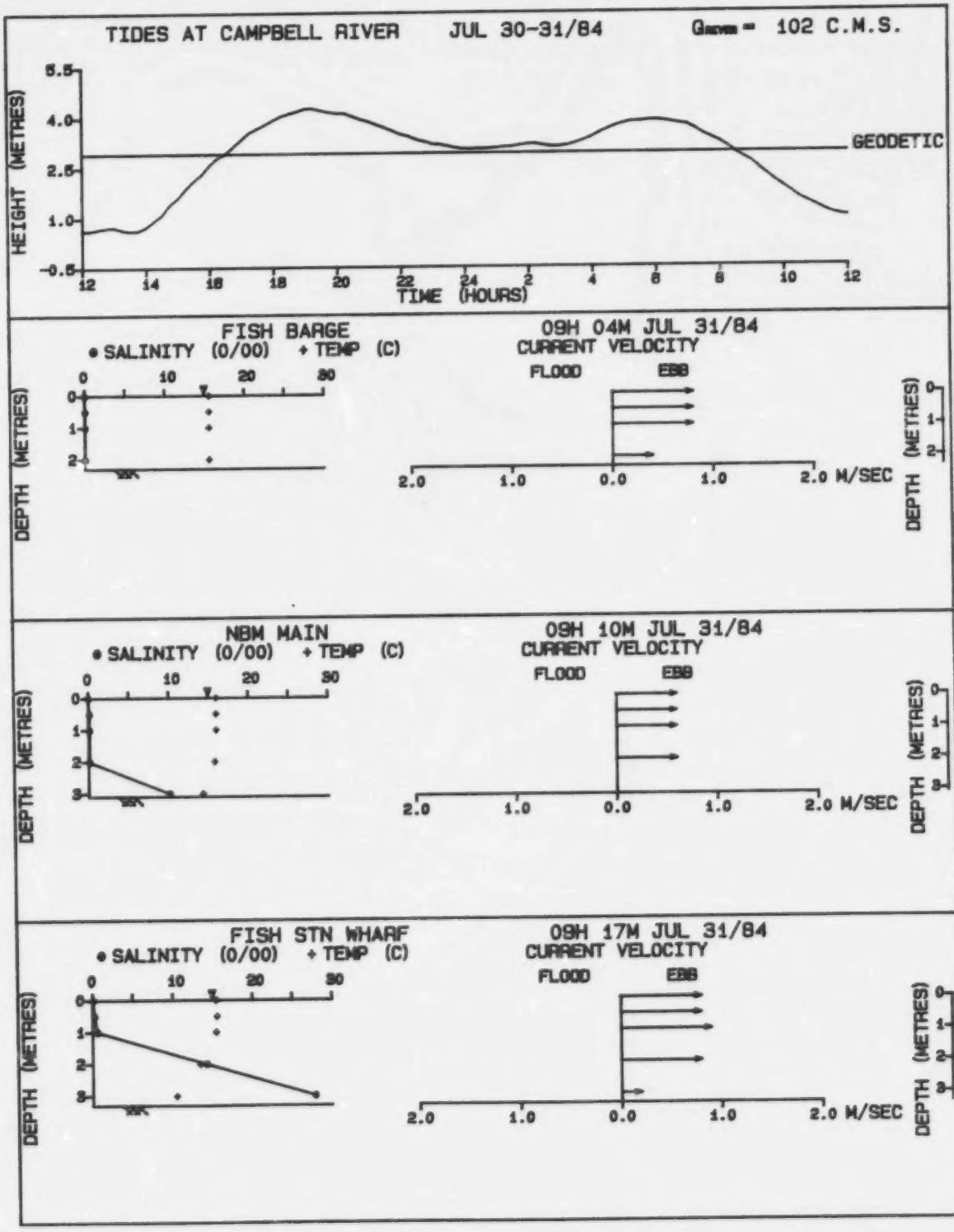
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



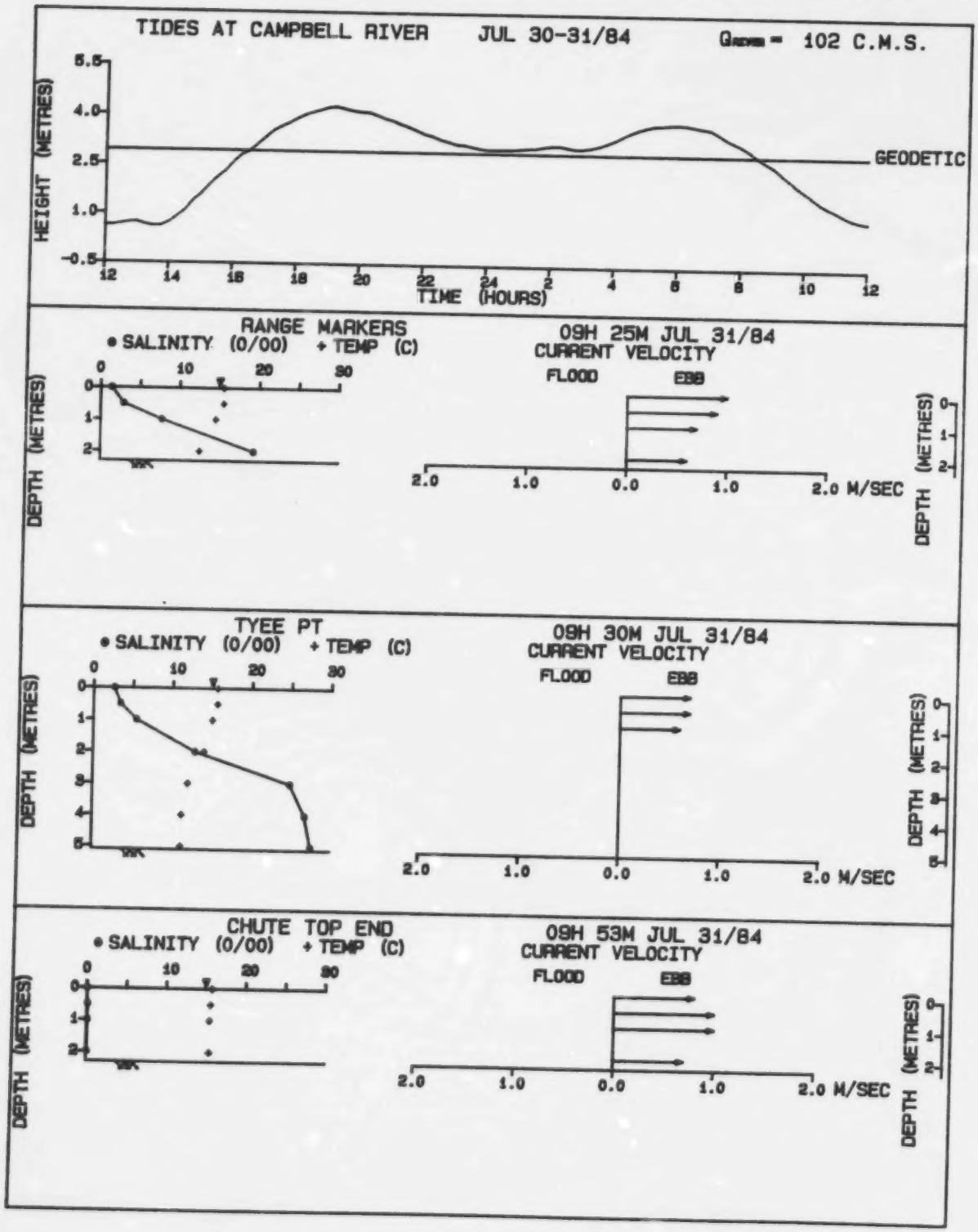
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



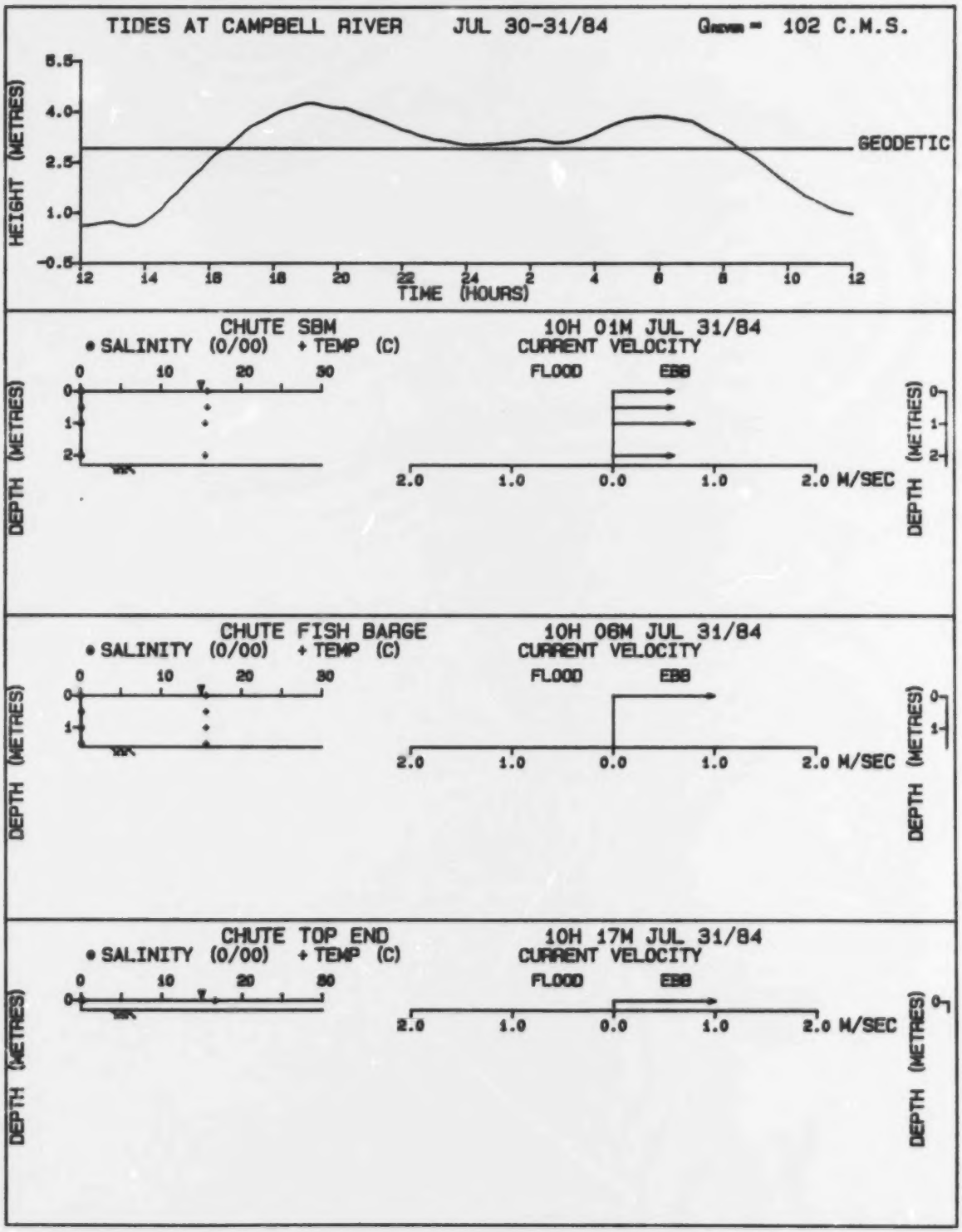
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



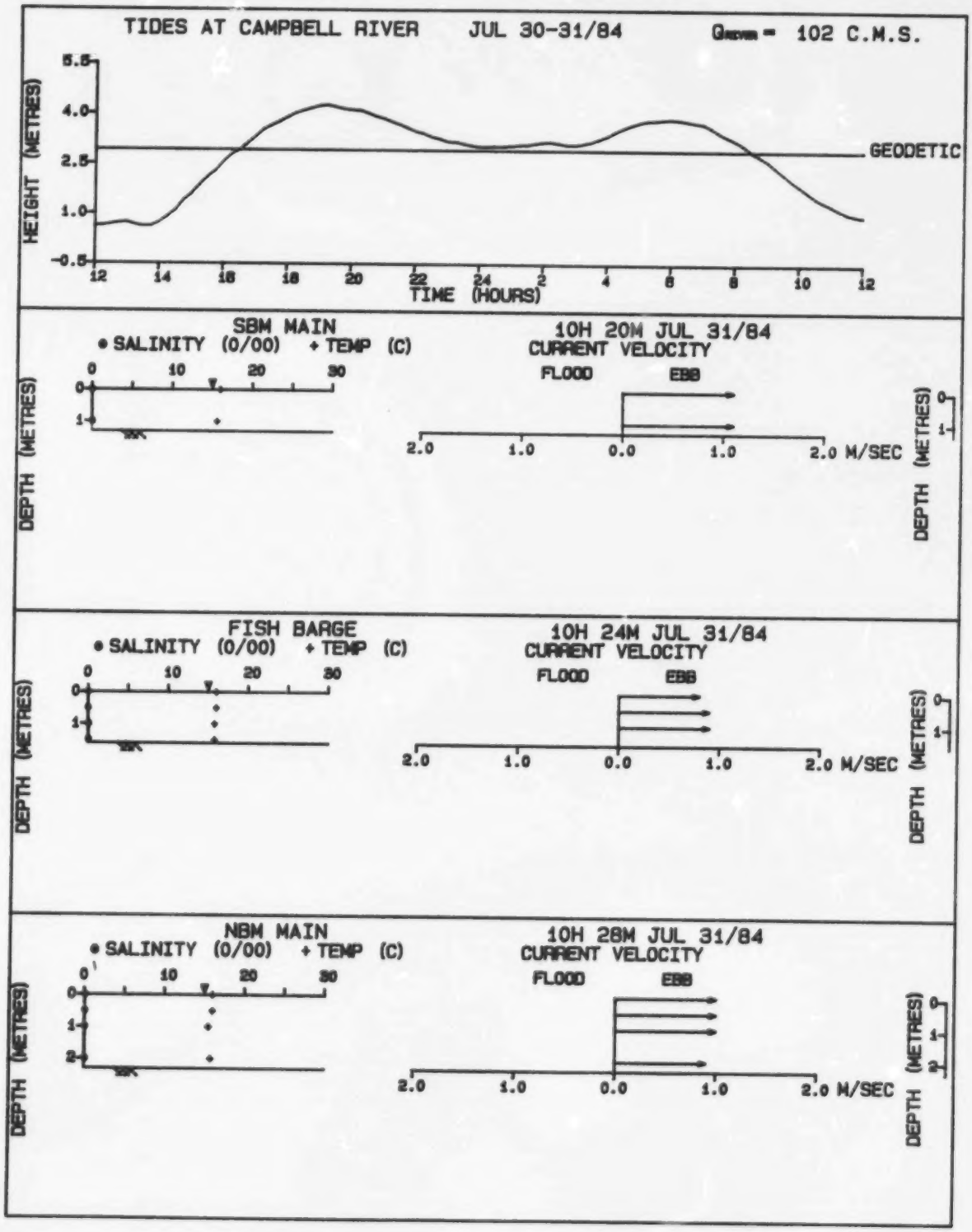
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



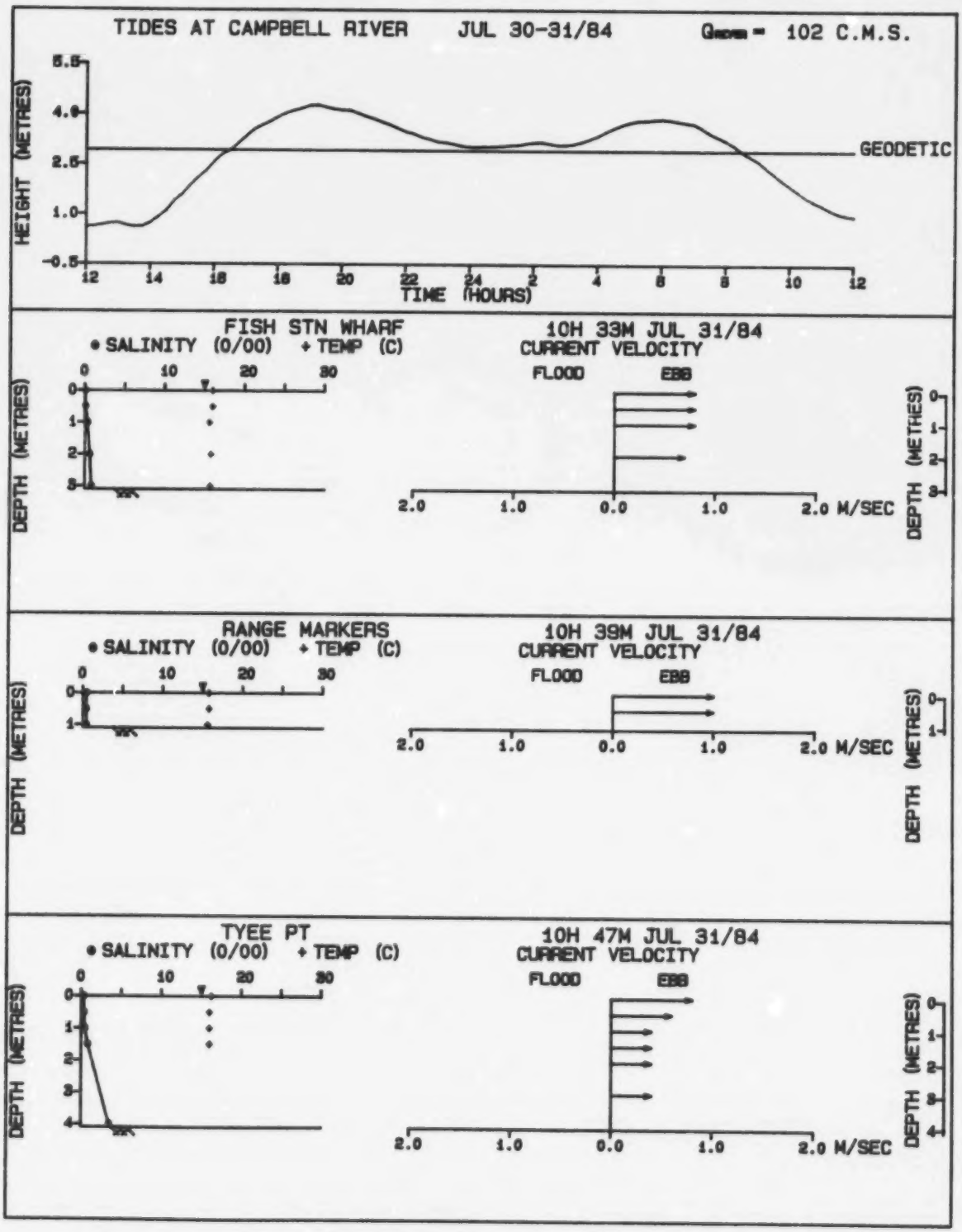
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



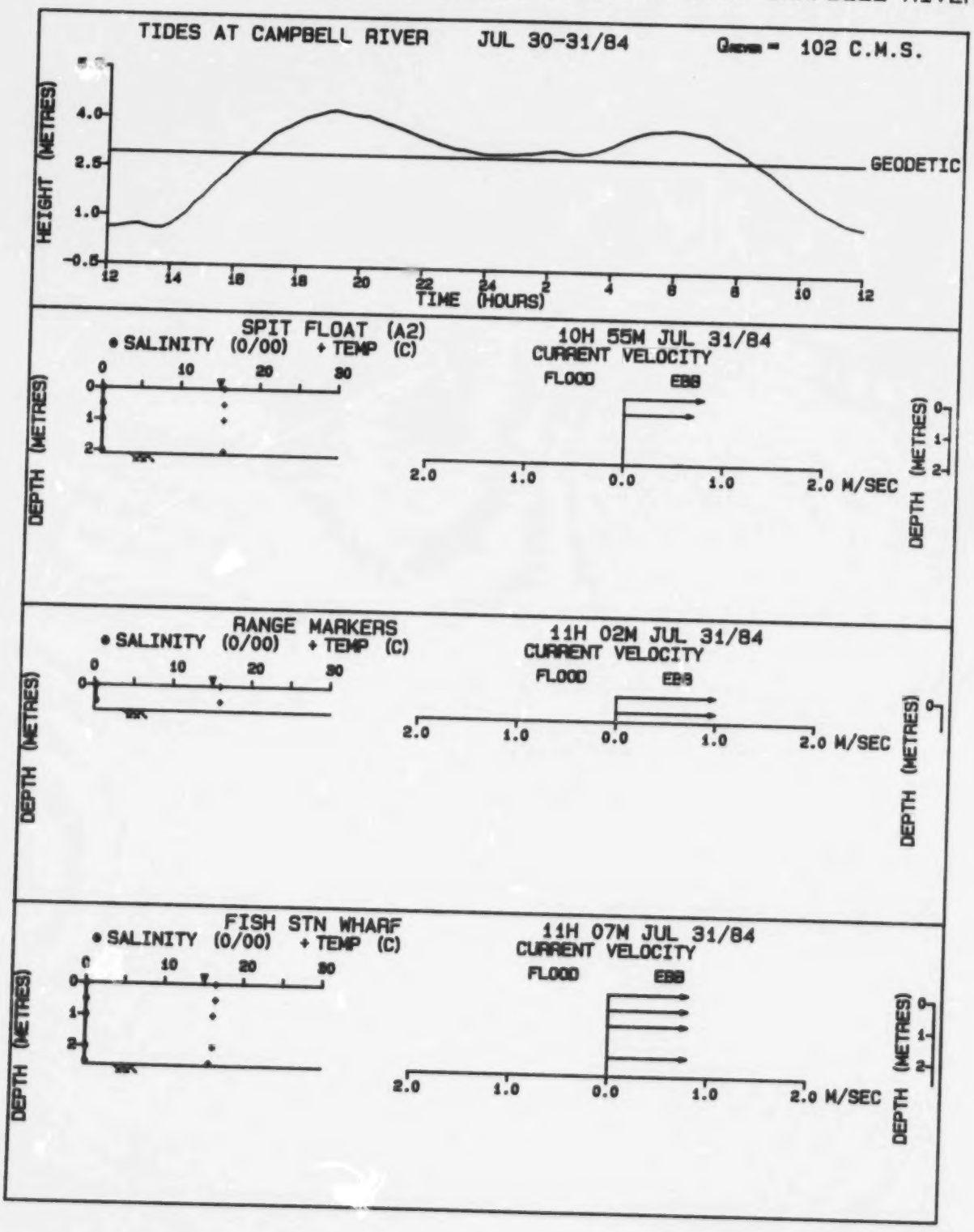
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



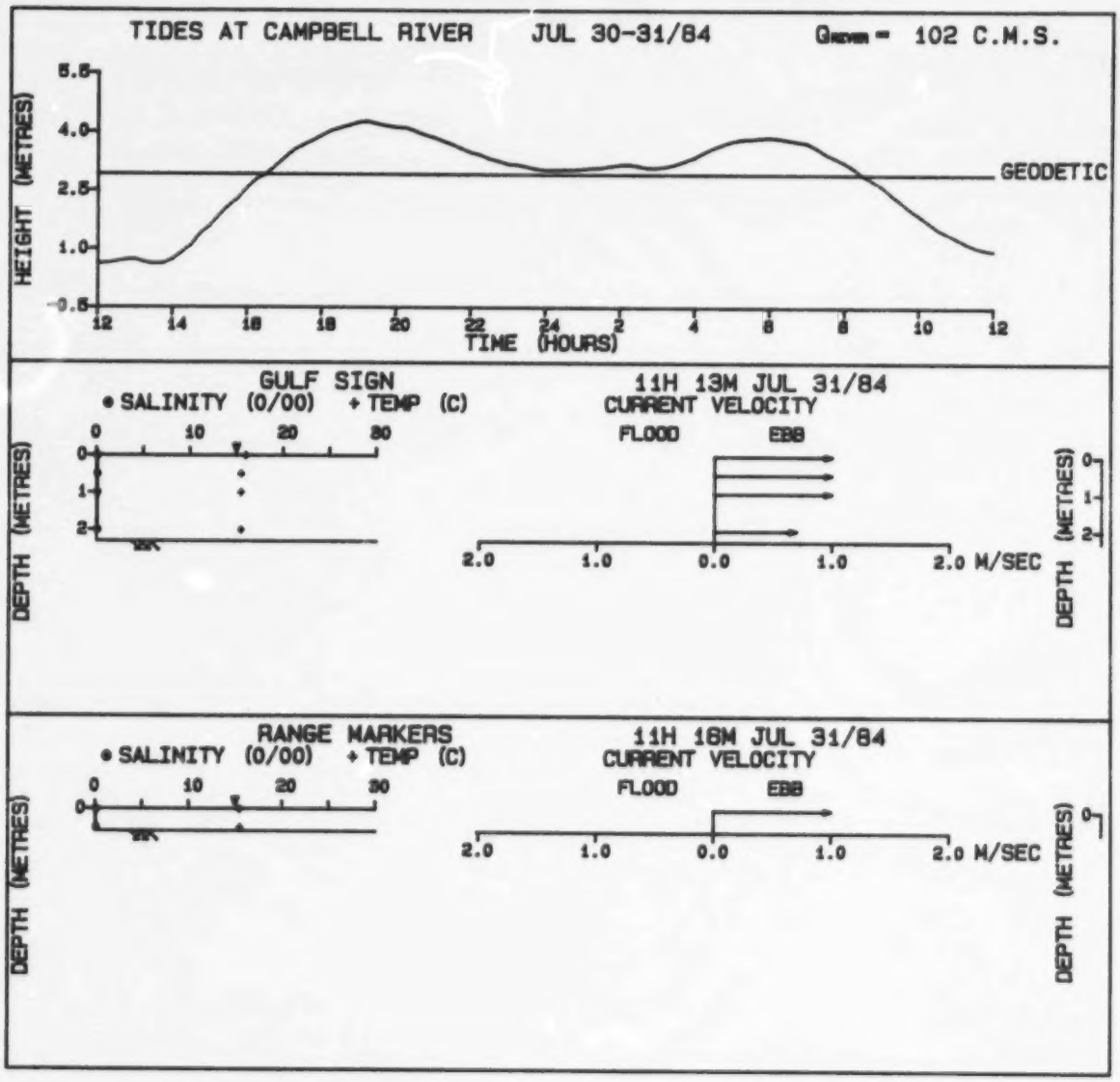
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



AUG 13/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	12H 37M	.0	.0	14.5	.60	E
		1.0	.0	14.5	.60	E
		1.5	17.1			
		2.0	21.9	12.0	.10	E
		3.0	25.3	12.0	.10	E
		4.0	26.0			
RANGE MARKERS	12H 48M	.0	.0	15.0	.70	E
		1.0	.0	15.0	.70	E
GULF SIGN	12H 54M	.0	.0	15.0	.90	E
		1.0	.0	15.0	.80	E
		2.0	.0	15.0	.60	E
FISH STN WHARF	12H 59M	.0	.0	15.0	.80	E
		1.0	.0	15.0	.70	E
		2.0	.0	15.0	.60	E
NBM MAIN	13H 05M	.0	.0	15.0	.90	E
		1.0	.0	15.0	.90	E
		1.5	.0	15.0	.90	E
FISH BARGE	13H 09M	.0	.0	15.0	.90	E
		1.0	.0	15.0	.90	E
SBM MAIN	13H 14M	.0	.0	15.0	1.00	E
		1.0	.0	15.0		
NBM	13H 17M	.0	.9	15.5	.00	
		.5	1.1	15.5		
BARGE TURN NBM	13H 22M	.0	1.1	15.5		
		1.0	1.2	15.3		
		1.5	23.4	14.5		
TUG TURN NBM	13H 24M	.0	1.2	16.0	.00	
		1.0	1.2	15.6	.00	
		2.0	27.6	11.4	.00	
		3.0	28.3	10.5	.00	

AUG 13/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SPIT FLOAT (A1)	13H 36M	.0	.1	15.2	.00	
		1.0	.3	15.5	.00	
		2.0	.8	15.0	.00	
MOTHER RAMP	13H 45M	.0	.3	15.0	.00	
		1.0	1.4	15.0	.00	
		1.5	20.8	12.5	.00	
LOG BASIN	13H 56M	.0	2.8	15.6	.00	
		1.0	6.1	15.0	.00	
		2.0	26.0	12.5	.00	
		3.0	27.6	10.8	.00	
		4.0	27.9	10.8	.00	
		5.0	27.9	10.5	.00	
TYEE PT	14H 08M	.0	.0	14.5	.40	E
		.5	.1	14.5	.40	E
		1.0	13.2	13.0	.40	E
		2.0	27.6	10.5	.10	F
		3.0	27.6	10.2	.05	F
RANGE MARKERS	14H 16M	.0	.0	14.5	.50	E
		1.0	.0	14.5	.40	E
TYEE PT	15H 14M	.0	.1	14.6	.20	E
		.5	2.6	14.5	.10	E
		1.0	16.4	12.4	.20	F
		1.5			.40	F
		2.0	27.6	10.5	.40	F
		3.0	27.9	10.5	.40	F
		3.5	27.9	10.3		
RANGE MARKERS	15H 20M	.0	.0	14.5	.20	E
		.5	.0	14.5	.20	E
		1.0	.3	14.5	.05	E
		1.5	12.9	13.3	.10	F
		1.8			.10	F
		2.0	26.8	10.6		
GULF SIGN	15H 26M	.0	.0	14.5	.10	E
		.5	.0	14.5	.20	E
		1.0	.0	14.5	.20	E

AUG 13/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
GULF SIGN	15H 26M	2.0	.0	14.5	.20	E
		2.5	.0	14.5		
		2.8			.05	E
FISH STN WHARF	15H 33M	.0	.0	14.5	.20	E
		1.0	.0	14.5	.20	E
		2.0	.0	14.5	.25	E
		3.0	.0	14.5	.20	E
		3.5	.0	14.5	.20	E
TYEE PT	15H 50M	.0	.2	14.5	.10	E
		.5	2.9	14.5	.20	E
		1.0	23.0	12.0	.20	F
		2.0	27.6	10.5	.20	F
		3.0	28.3	10.0	.30	F
		3.5			.30	F
		4.0	28.3	10.0		
RANGE MARKERS	15H 58M	.0	.1	14.5	.30	E
		.5	.6	14.5	.40	E
		1.0	5.4	13.7	.30	E
		1.5			.10	F
		2.0	27.6	10.5	.20	F
GULF SIGN	16H 05M	.0	.0	14.5	.30	E
		.5	.0	14.5	.30	E
		1.0	.1	14.5	.30	E
		1.5			.10	E
		2.0	4.5	14.0	.10	E
		2.5			.20	F
		3.0	15.0	12.7	.20	F
FISH STN WHARF	16H 10M	.0	.0	14.5	.40	E
		1.0	.0	14.5	.40	E
		1.5			.40	E
		2.0	5.4	13.5	.01	F
		2.5			.20	F
		3.0	24.5	11.5	.20	F
		3.5	26.8	10.5		
		4.0			.10	F
NBM MAIN	16H 16M	.0	.0	14.5	.40	E
		1.0	.0	14.5	.40	E

AUG 13/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
NBM MAIN	16H 16M	1.5			.40	E
		2.0	.5	14.5	.30	E
		2.5			.10	E
		3.0	20.1	12.0	.10	F
FISH BARGE	16H 22M	.0	.0	14.5	.40	E
		1.0	.0	14.5	.30	E
		2.0	.0	14.5	.30	E
		2.5	4.5	14.0	.10	E
SBM MAIN	16H 27M	.0	.0	14.5	.40	E
		1.0	.0	14.5	.40	E
		2.0	.0	14.5	.40	E
TOP TAG MAIN	16H 32M	.0	.0	14.5	.60	E
		1.0	.0	14.5	.40	E
		2.0	.0	14.5	.40	E
TYEE PT	16H 42M	.0	.6	14.5	.30	E
		.5	17.9	12.0	.10	E
		1.0	26.8	10.5	.05	F
		1.5			.20	F
		2.0	28.3	10.0	.30	F
		3.0	28.3	10.0	.30	F
		4.0	28.3	10.0		
RANGE MARKERS	16H 50M	.0	.0	14.5	.20	E
		.5	.7	14.5	.20	E
		1.0	1.8	14.5	.20	E
		1.5	23.8	12.0	.10	F
		2.0	27.6	10.5	.20	F
		2.5			.20	F
		3.0	27.9	10.0		
GULF SIGN	16H 59M	.0	.1	14.5	.40	E
		.5	.2	14.5	.40	E
		1.0	.8	14.4	.40	E
		1.5	7.4	13.5		
		2.0	20.1	12.0	.00	
		2.5			.10	F
		3.0	27.9	10.5	.20	F
		3.5			.20	F
		4.0	28.3	10.0	.20	F

AUG 13/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
GULF SIGN	16H 59M	4.5			.20	F
FISH STN WHARF	17H 06M	.0	.1	14.5	.40	E
		.5	.3	14.5	.50	E
		1.0	1.1	14.5	.50	E
		1.5	12.2	13.0	.40	E
		2.0	19.3	12.5	.10	F
		2.5			.10	F
		3.0	27.6	10.5	.20	F
		3.5			.20	F
		4.0	27.9	10.5	.20	F
NBM MAIN	17H 15M	.0	.1	14.5	.35	E
		.5	.1	14.5	.40	E
		1.0	.1	14.5	.40	E
		1.5	.5	14.5	.40	E
		2.0	15.3	12.5	.05	F
		2.5	25.7	10.7	.20	F
		3.0	27.6	10.5	.20	F
		3.5	27.6	10.5	.20	F
FISH BARGE	17H 21M	.0	.0	14.2	.30	E
		.5	.0	14.2	.40	E
		1.0	.0	14.2	.40	E
		1.5	.1	14.2	.40	E
		2.0	1.7	14.0	.30	E
		2.5	26.0	10.7	.20	F
		2.8			.20	F
		3.0	26.8	10.5		
SBM MAIN	17H 28M	.0	.0	14.5	.40	E
		.5	.0	14.5		
		1.0	.0	14.5	.40	E
		1.5	.0	14.5		
		2.0	.0	14.5	.30	E
		2.5	.1	14.5	.30	E
		3.0	.0	14.5		
SBM MAIN	17H 55M	.0	.0	14.5	.40	E
		.5	.0	14.5	.40	E
		1.0	.0	14.5	.40	E
		1.5			.50	E
		2.0	.1	14.5	.45	E
		2.5	4.1	14.0	.40	E

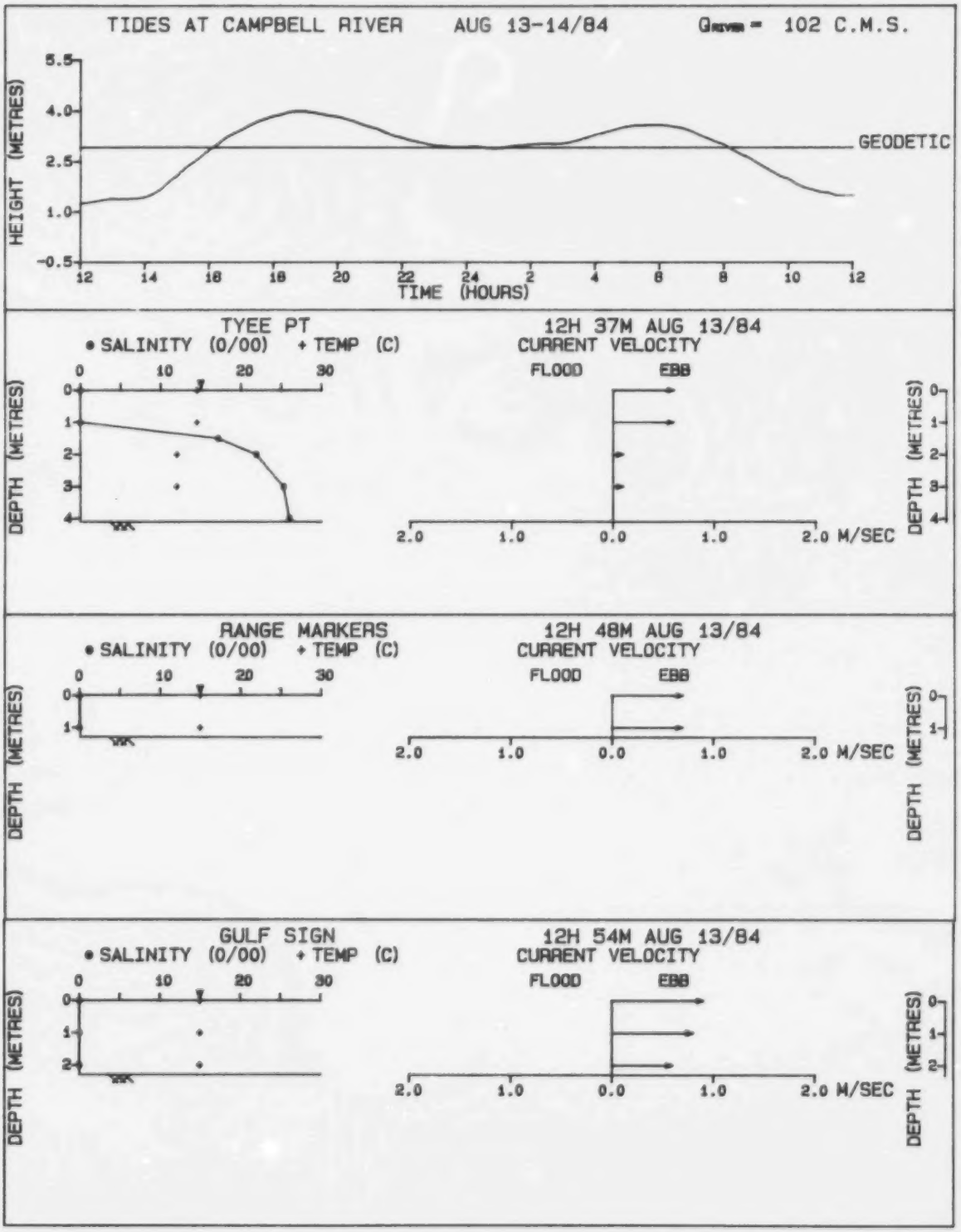
AUG 13/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SBM MAIN	17H 55M	3.0	11.5	13.5	.10	E
TOP TAG MAIN	18H 02M	.0	.0	14.5	.30	E
		.5	.0	14.5	.35	E
		1.0	.0	14.5	.35	E
		2.0	.0	14.5	.30	E
		2.5	.0	14.5	.30	E
TYEE PT	18H 20M	.0	3.2	14.5	.35	E
		.5	6.7	13.0		
		1.0	18.6	11.7	.05	E
		2.0	24.5	11.0	.20	E
		3.0	28.3	10.5	.30	E
		4.0	28.3	10.0		
		5.0	28.3	10.0		
RANGE MARKERS	18H 29M	.0	1.7	14.2	.40	E
		.5	7.4	13.5	.40	E
		1.0	10.8	13.0	.30	E
		1.5			.10	E
		2.0	27.9	10.0	.20	F
		3.0	29.1	10.0	.10	F
GULF SIGN	18H 36M	.0	.5	14.5	.50	E
		.5	1.8	14.2	.55	E
		1.0	9.4	13.0	.40	E
		2.0	26.0	11.0	.20	F
		3.0	27.9	10.2	.20	F
		4.0	28.3	10.0	.20	F
FISH STN WHARF	18H 41M	.0	.5	14.5	.60	E
		.5	.8	14.2	.55	E
		1.0	7.1	13.2	.45	E
		2.0	26.0	12.0	.05	F
		3.0	27.9	10.2	.10	F
		4.0	28.3	10.0	.10	F
NBM MAIN	18H 49M	.0	.0	14.2	.50	E
		.5	.4	14.2	.50	E
		1.0	.5	14.2	.50	E
		2.0	12.2	12.7	.10	F
		3.0	26.8	10.5	.10	F
		4.0	28.3	10.0	.10	F

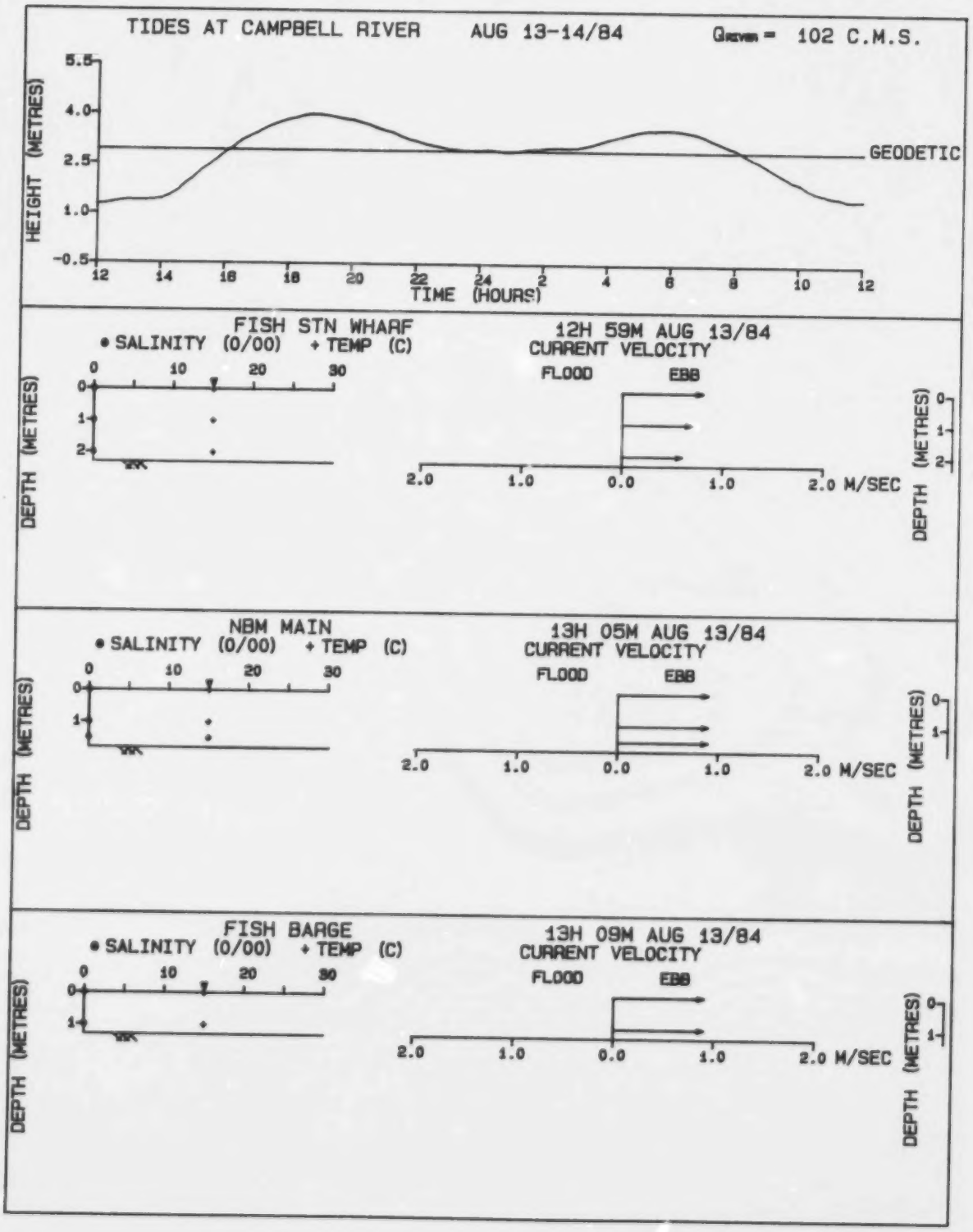
AUG 13/84 RIVER DISCHARGE - 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH BARGE	18H 55M	.0	.0	14.0	.50	E
		.5	.1	14.2	.50	E
		1.0	.1	14.2	.50	E
		2.0	2.3	14.0	.40	E
		2.5			.00	
		3.0	27.2	11.0	.05	F
		3.5	27.9	10.2	.10	F
SBM MAIN	19H 02M	.0	.0	14.0	.40	E
		.5	.0	14.2	.45	E
		1.0	.1	14.2	.45	E
		2.0	.8	14.2	.50	E
		3.0	27.6	11.0	.05	E
TOP TAG MAIN	19H 08M	.0	.0	14.2	.50	E
		.5	.0	14.2	.40	E
		1.0	.0	14.5	.40	E
		2.0	.3	14.6	.40	E
		2.5	.8	14.0	.35	E
ORANGE CRANE	19H 12M	.0	.0	14.2	.50	E
		.5	.0	14.2	.50	E
		1.0	.0	14.5	.60	E
		2.0	.0	14.5	.55	E
		2.5	.0	14.5		
		3.0			.50	E
TOP TAG MAIN	19H 24M	.0	.0	14.5	.40	E
		1.0	.0	14.5	.40	E
		2.0	.1	14.5	.40	E
		3.0	1.7	14.5	.35	E
		3.5	16.4	12.0		
TOP TAG MAIN	19H 31M	.0	.0	14.2		
		1.0	.0	14.2		
		2.0	.1	14.2		
		3.0	14.6	13.2	.30	E

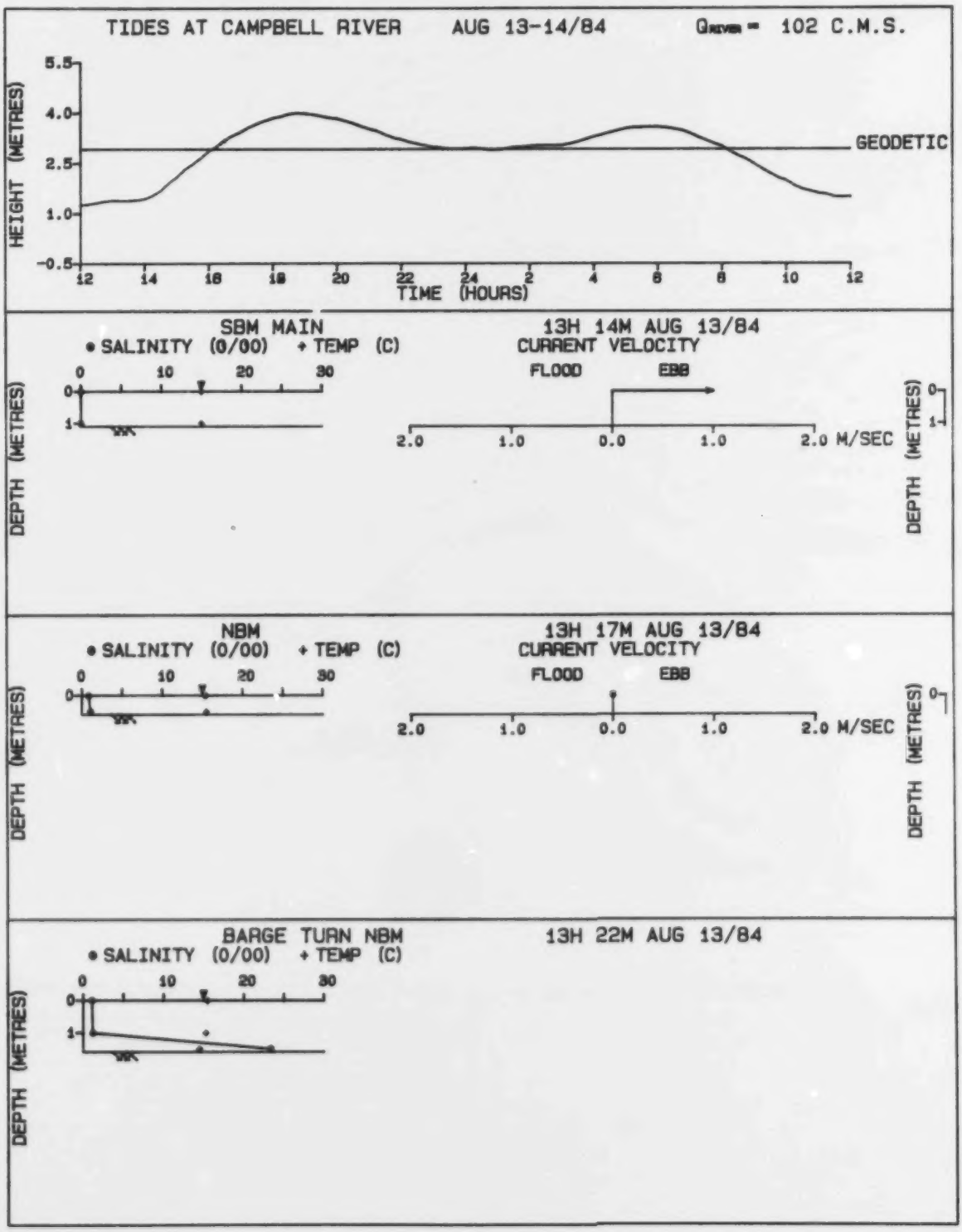
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



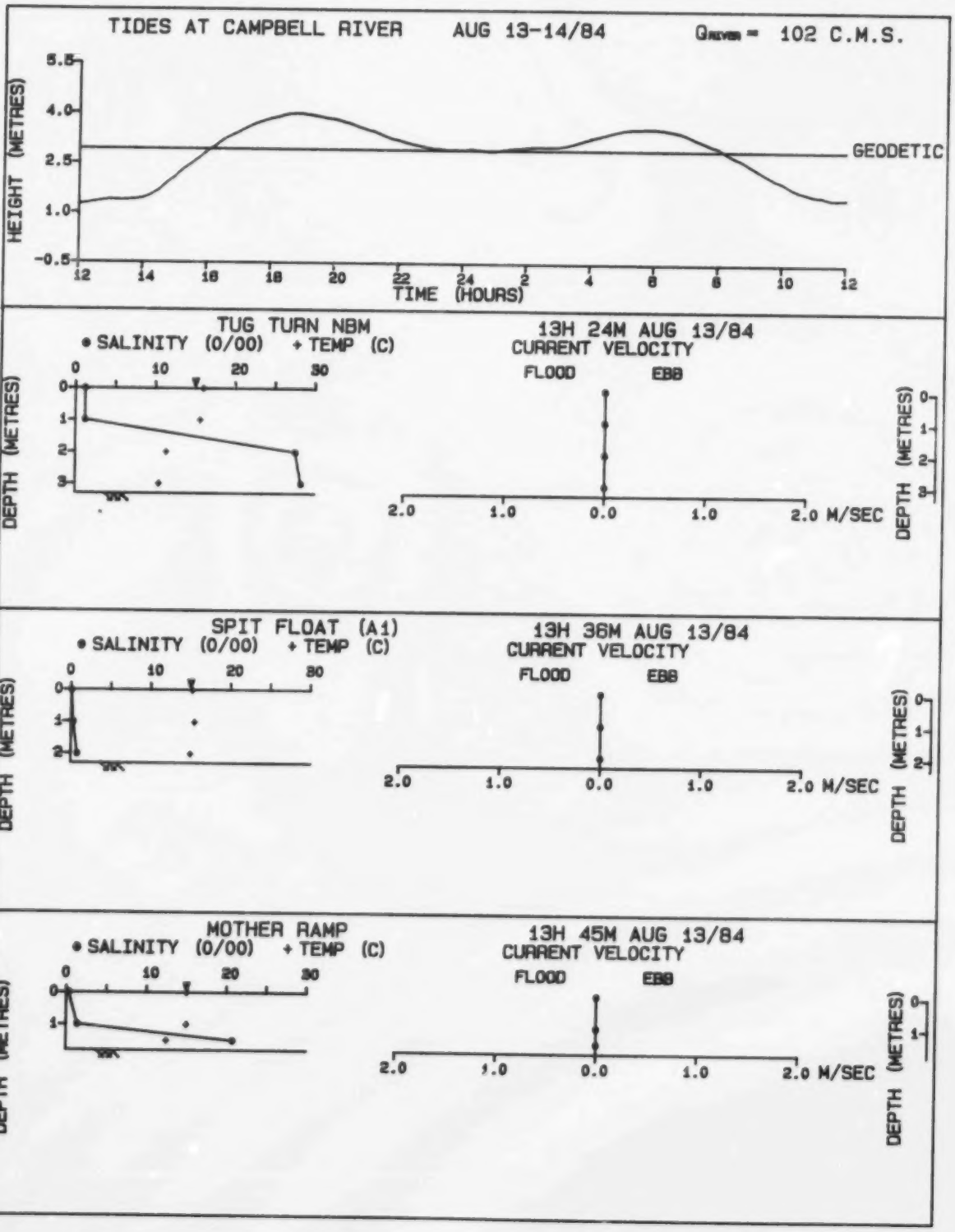
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



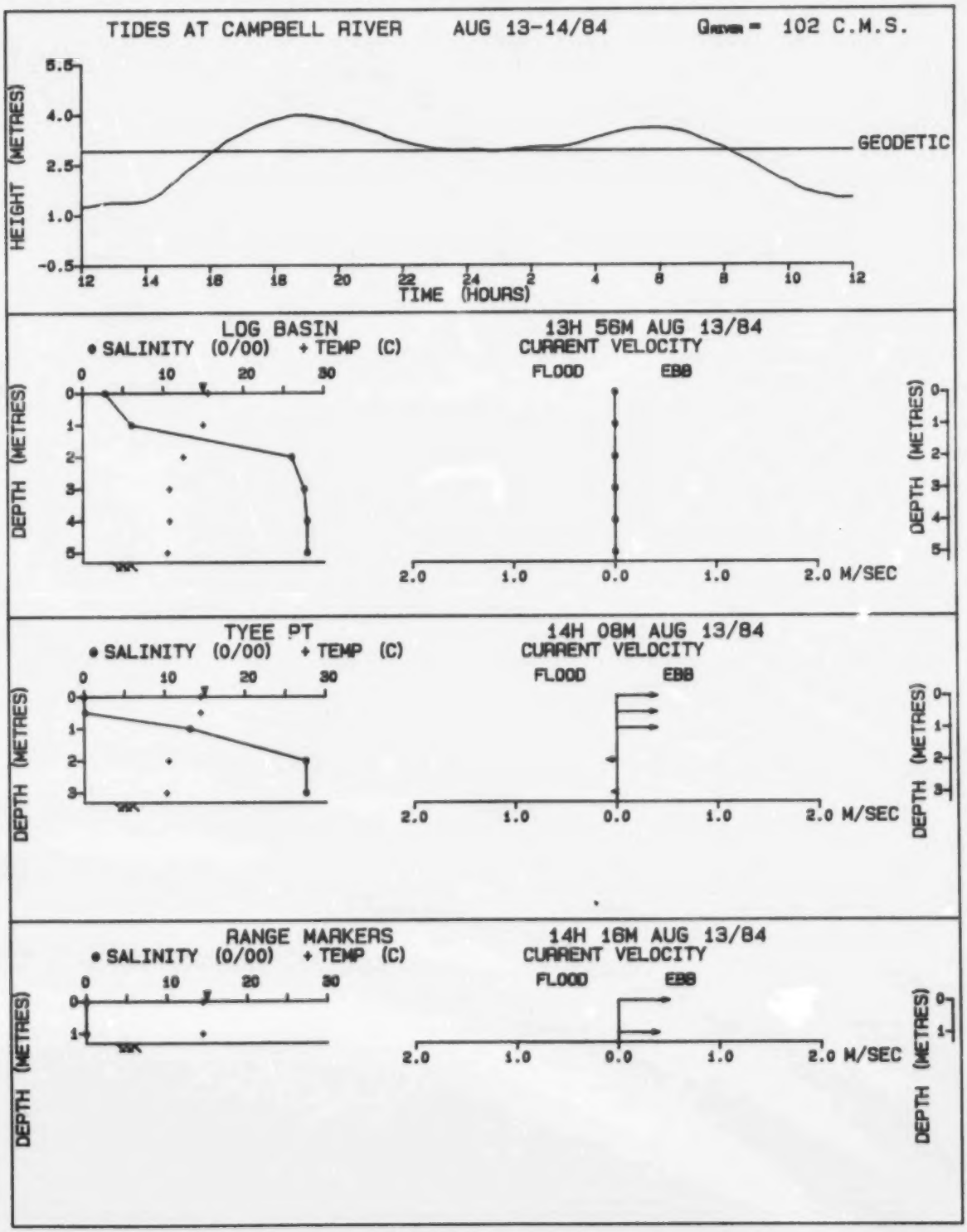
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



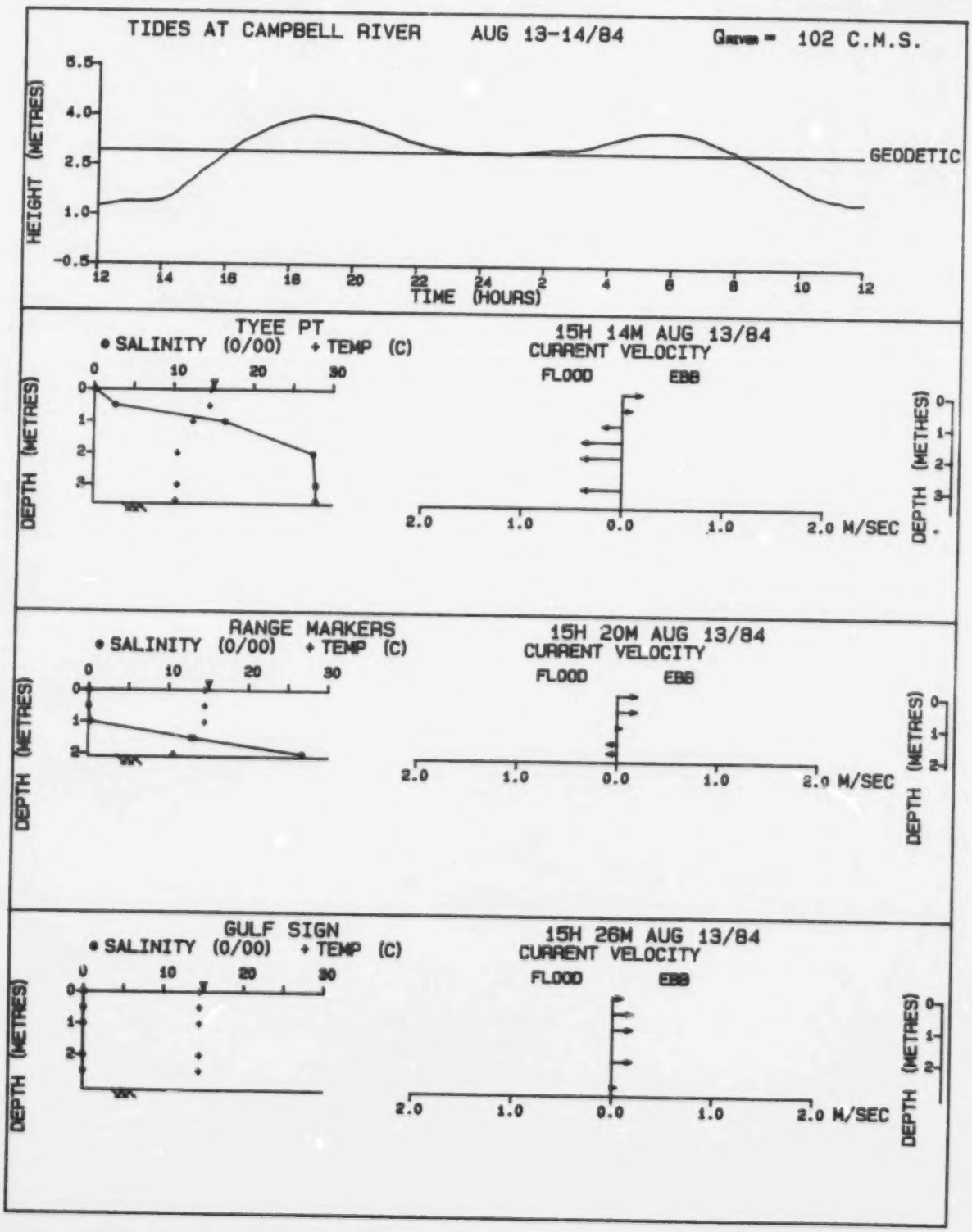
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



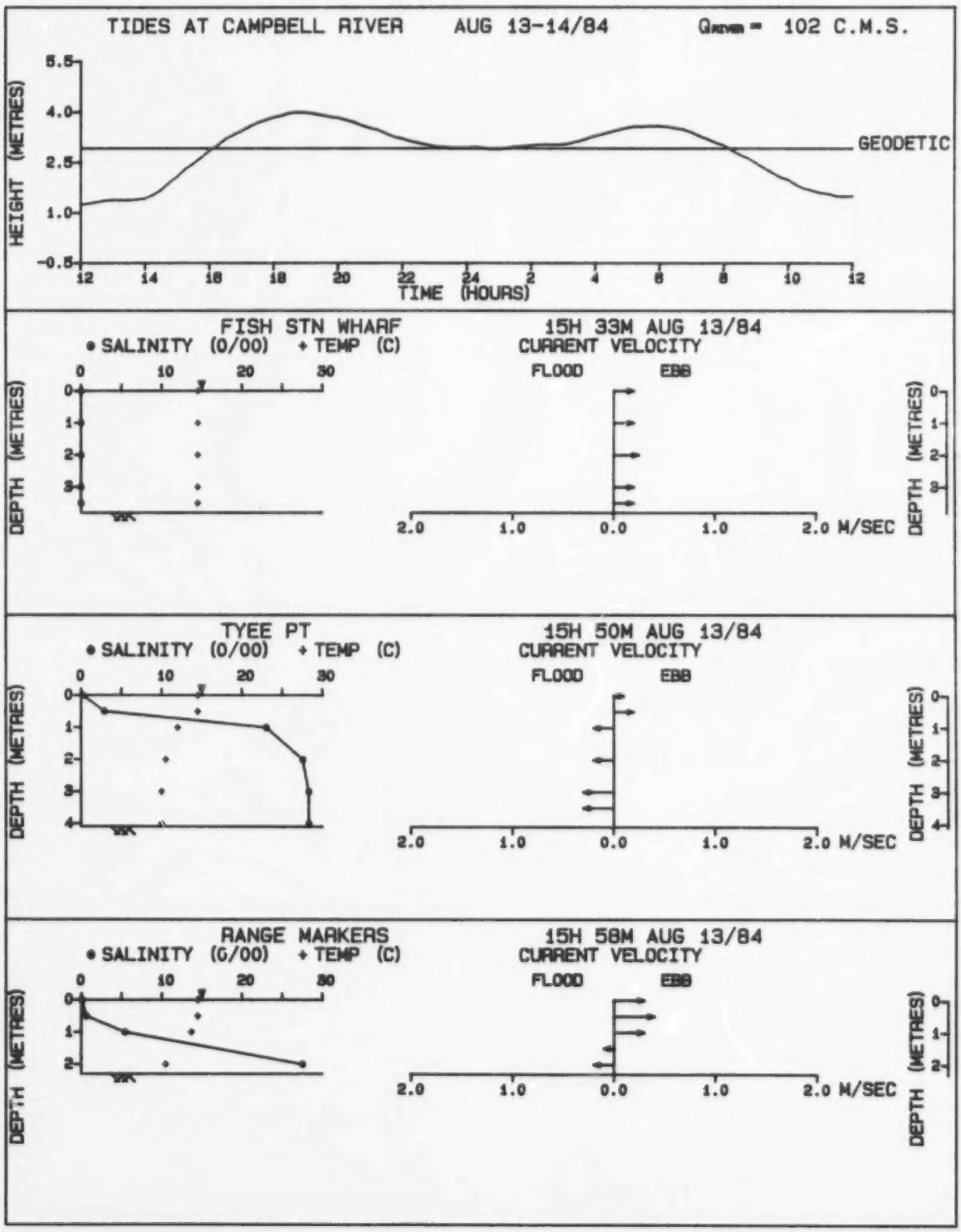
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



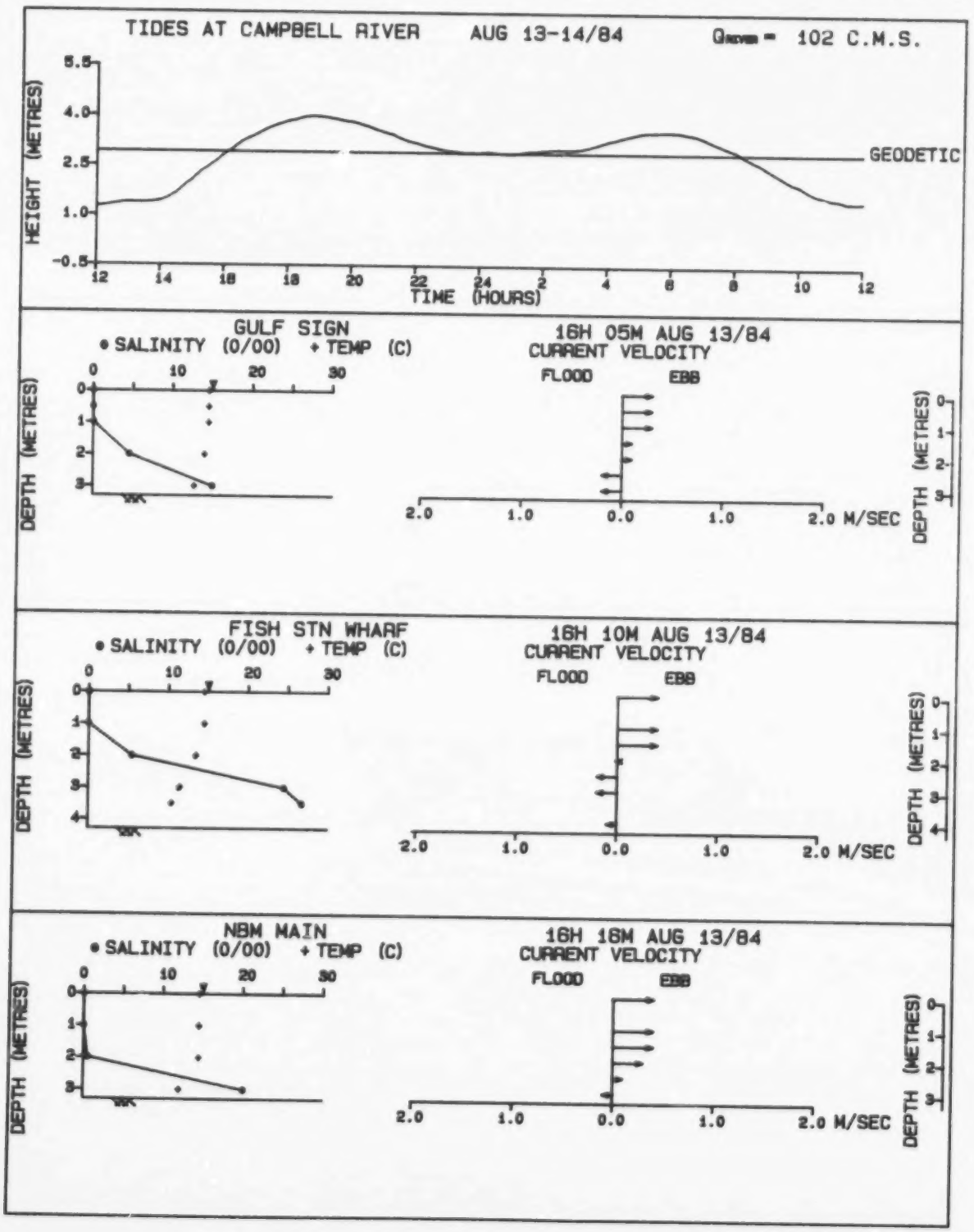
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



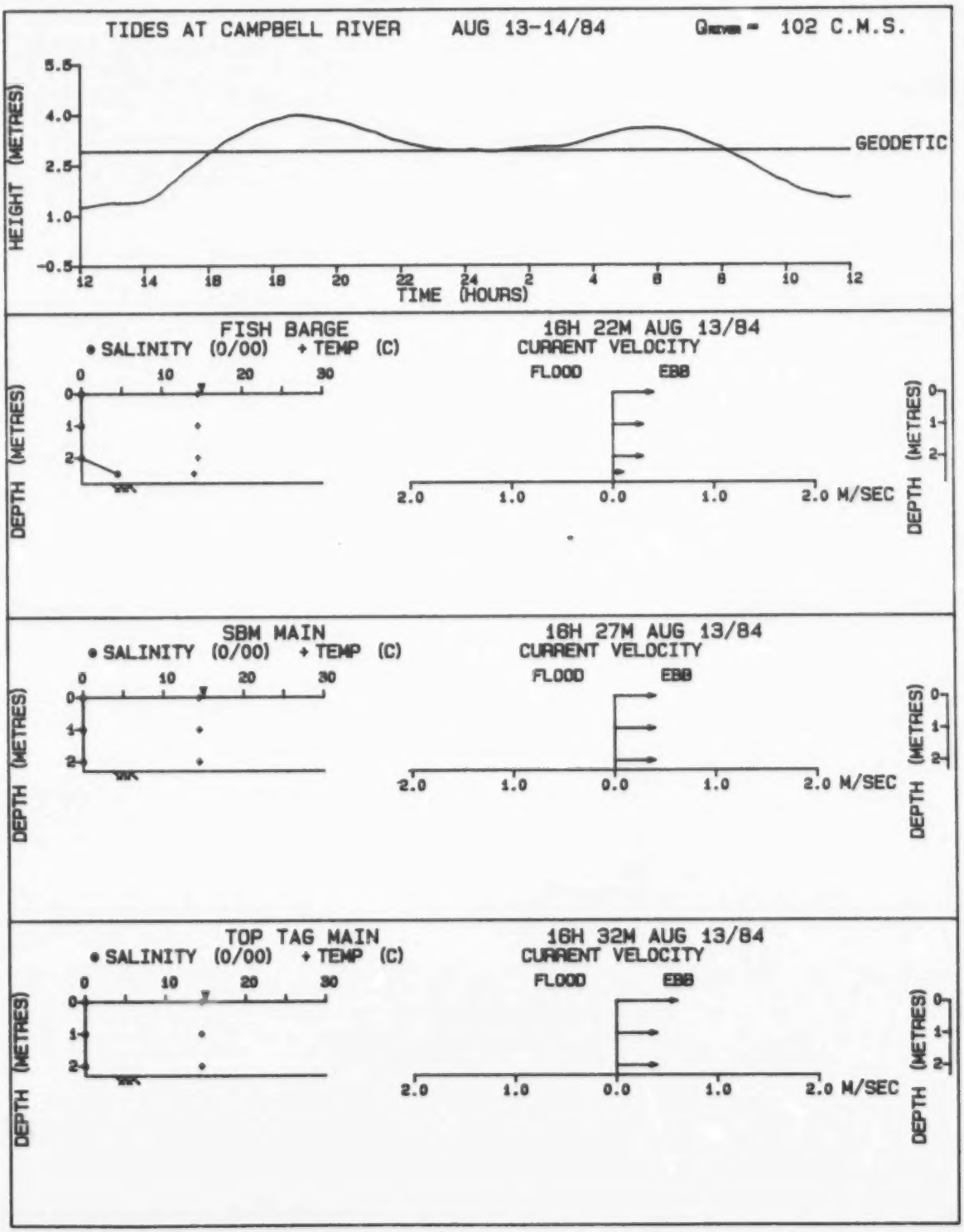
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



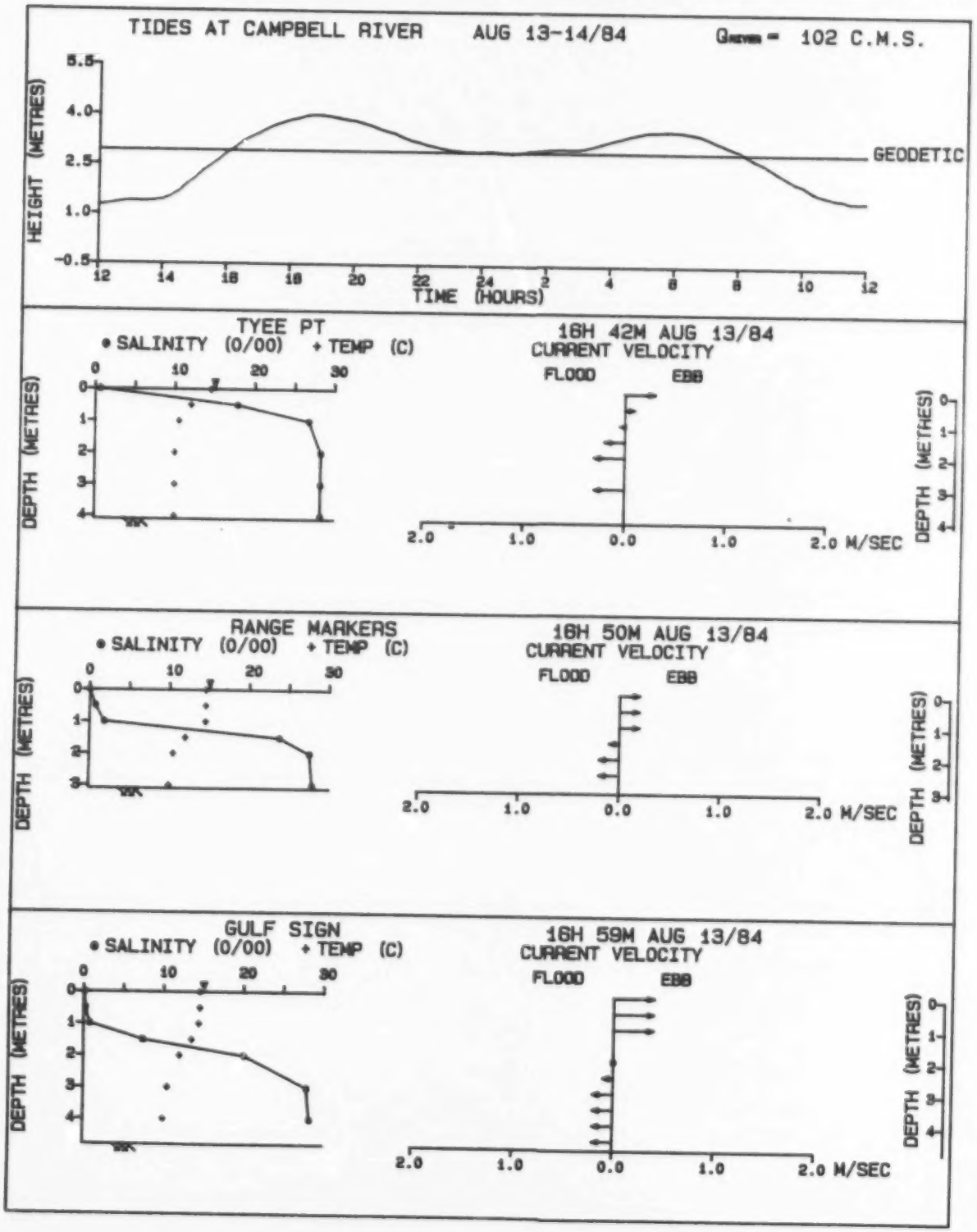
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



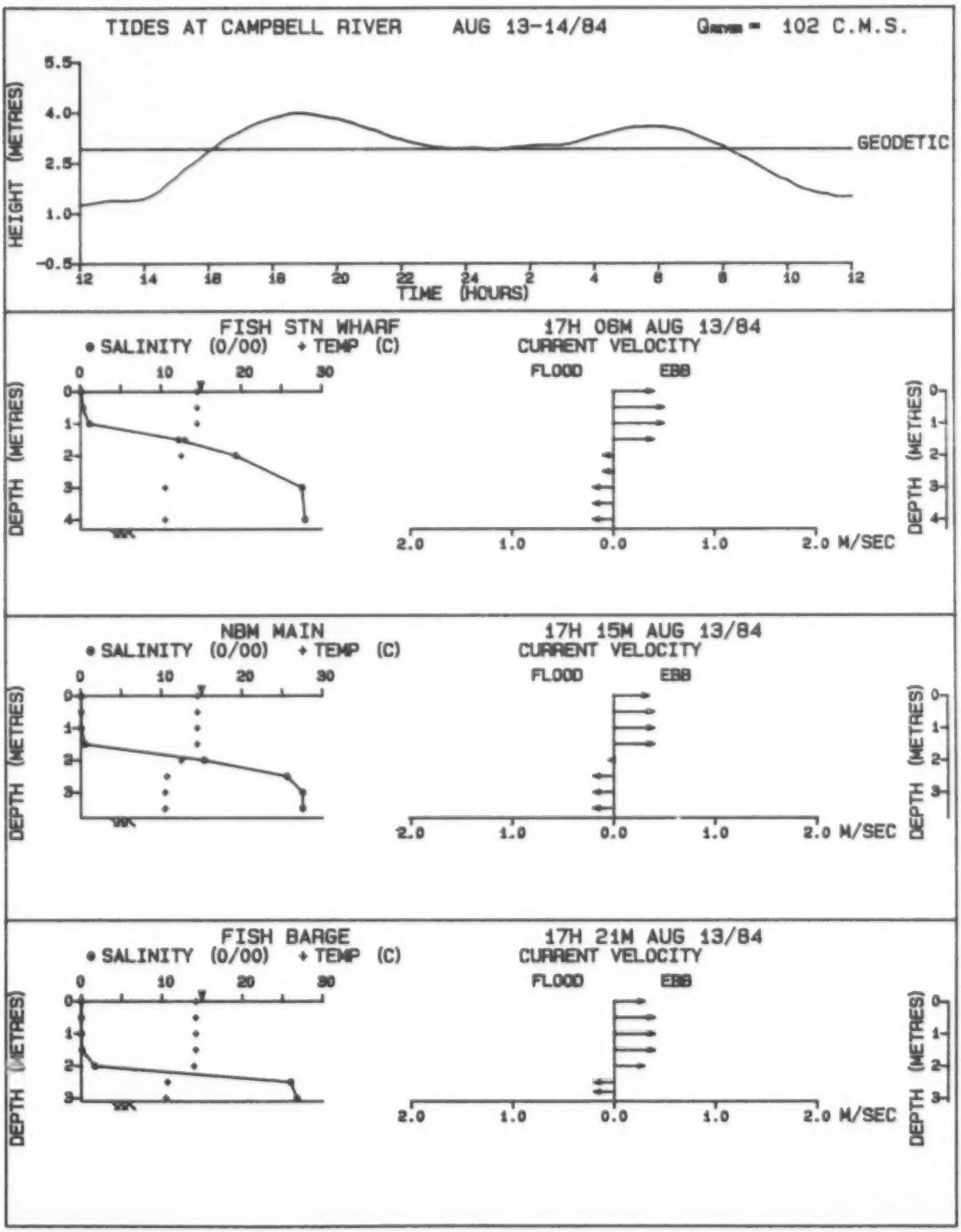
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



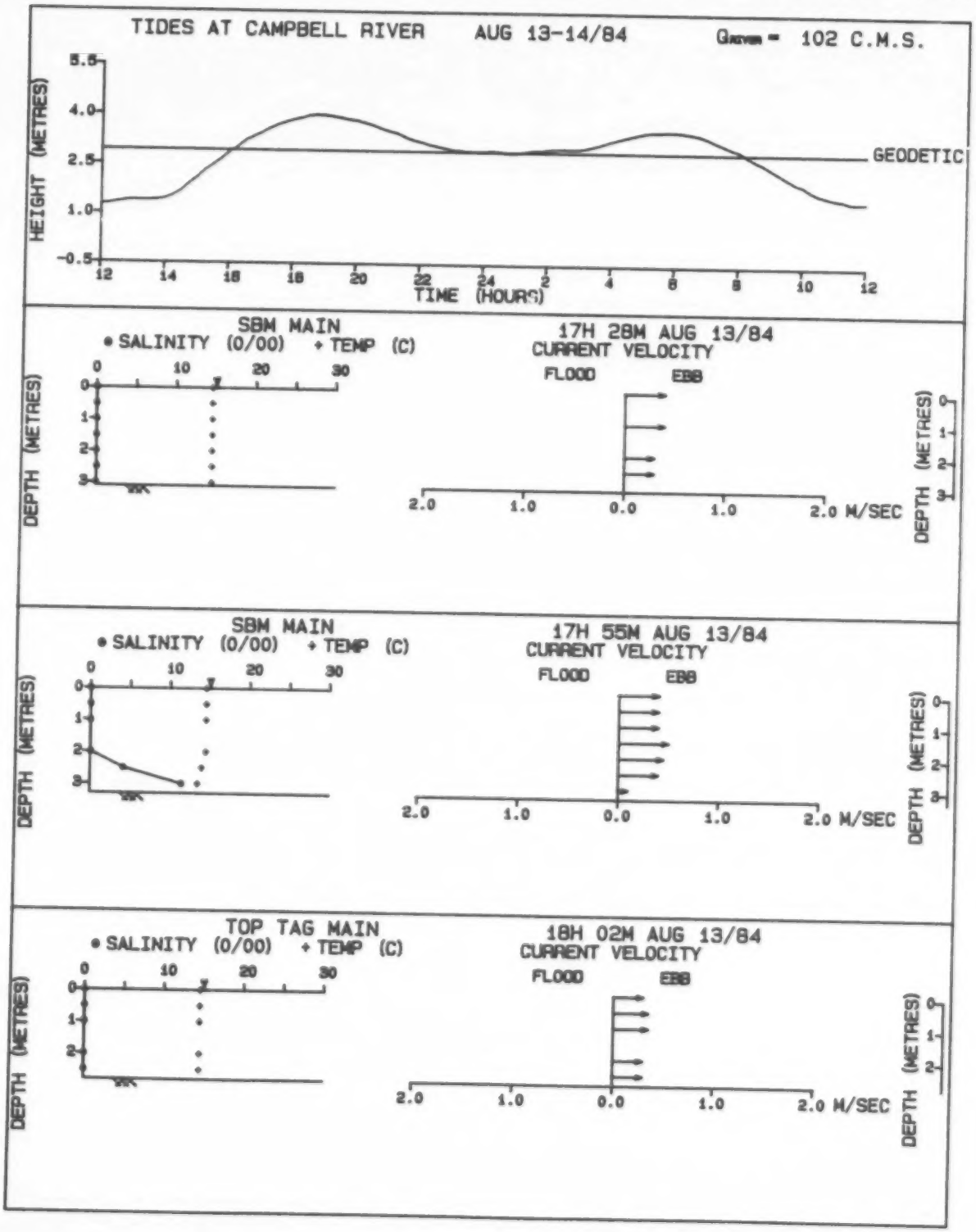
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



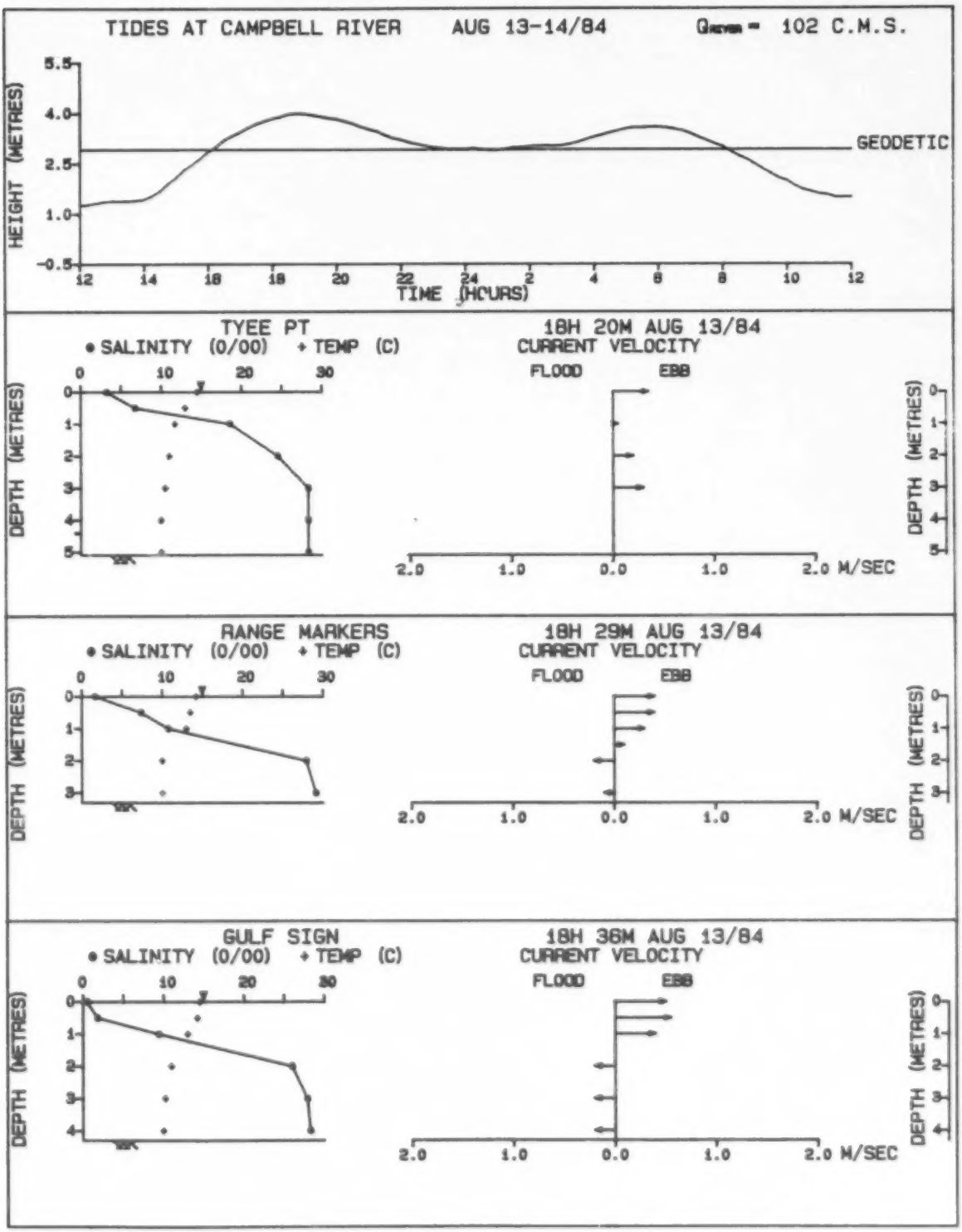
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



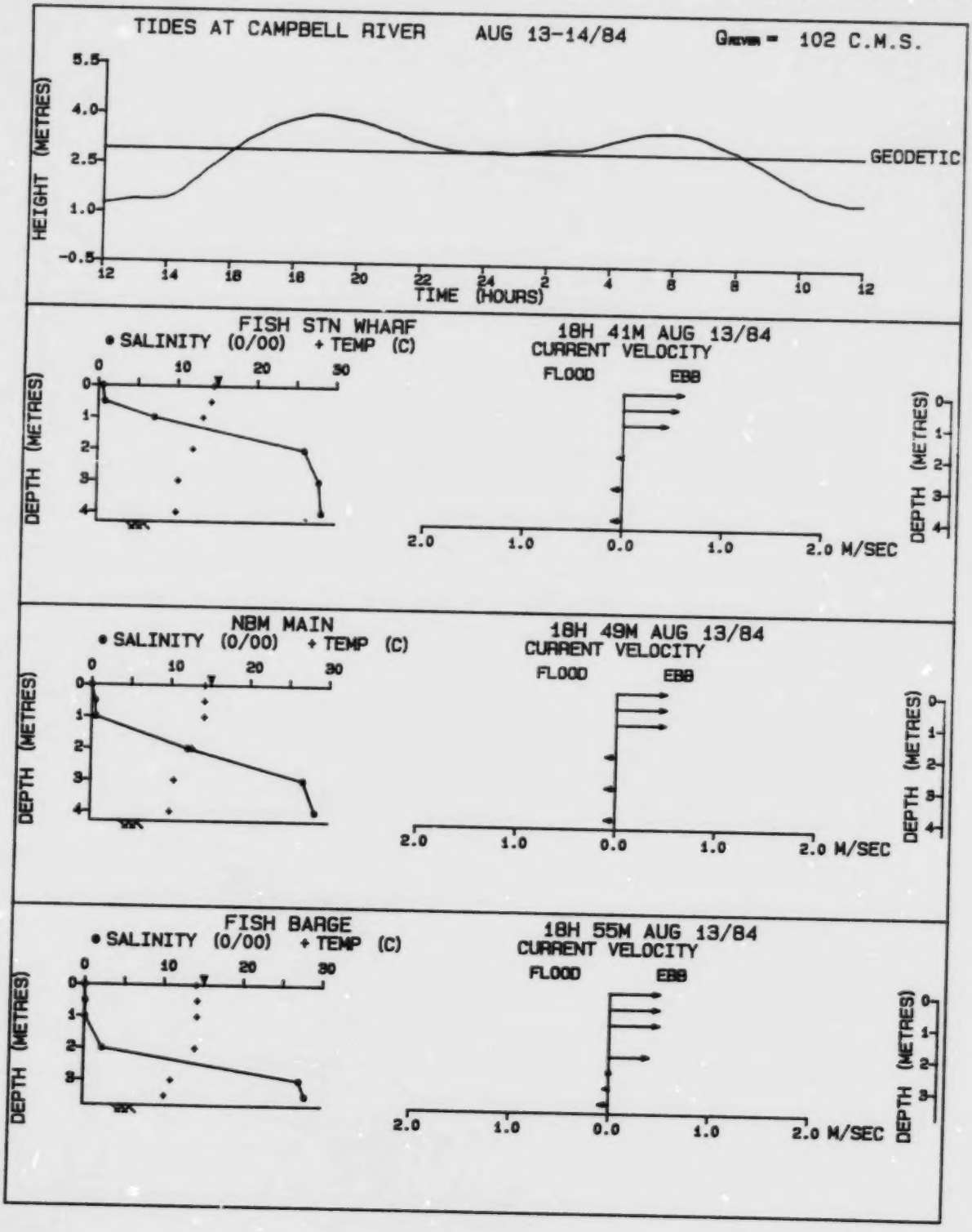
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



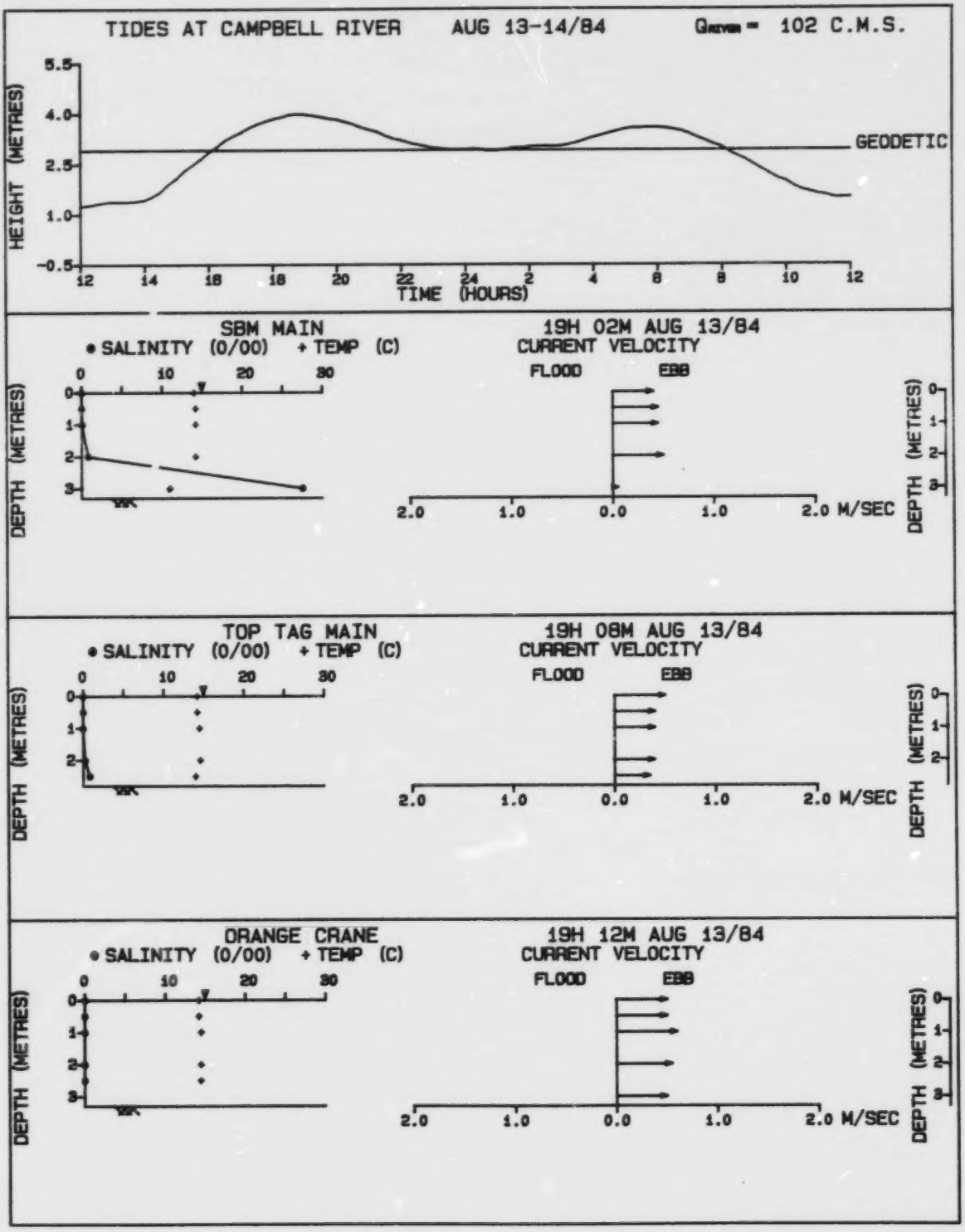
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



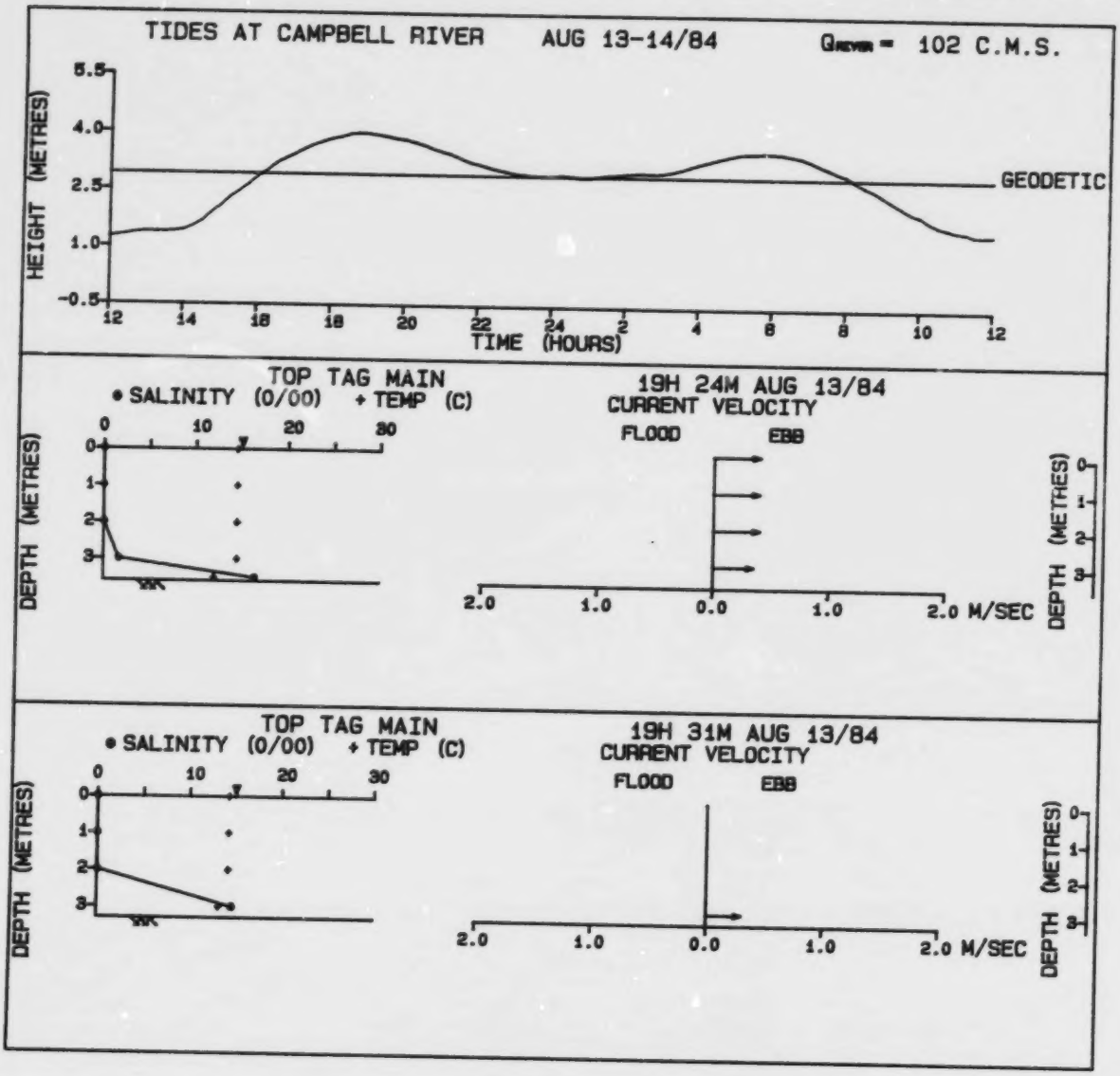
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



AUG 14/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	07H 44M	.0	17.1	11.7	.50	E
		.2	27.6	11.2		
		.5	27.6	10.4		
TYEE PT	07H 48M	.0	17.1	11.7	.50	E
		.5	25.3	10.7	.40	E
		1.0	27.9	10.0	.10	E
		2.0	28.3	10.0	.10	E
		3.0	28.3	10.0	.10	E
		4.0	28.3	9.8		
		5.0	28.3	9.3		
RANGE MARKERS	07H 55M	.0	.5	14.0	.55	E
		1.0	7.4	13.3	.50	E
		2.0	27.9	10.2	.05	E
		2.5	28.7	10.0		
GULF SIGN	08H 02M	.0	.4	14.5	.70	E
		1.0	2.3	14.2	.60	E
		2.0	26.4	10.8	.20	E
		3.0	28.7	10.0	.10	E
FISH STN WHARF	08H 09M	.0	.2	14.5	.80	E
		1.0	1.1	14.6	.80	E
		2.0	24.5	10.7	.20	E
		3.0	28.3	10.0	.10	E
		4.0	28.3	9.8		
NBM MAIN	08H 15M	.0	.1	14.5	.70	E
		1.0	.2	14.5	.70	E
		2.0	1.5	14.3	.60	E
		3.0	24.9	11.0	.10	E
FISH BARGE	08H 21M	.0	.0	14.5	.60	E
		1.0	.0	14.5	.60	E
		2.0	.1	14.5	.50	E
		2.5	.1	14.5		
SBM MAIN	08H 25M	.0	.0	14.5	.60	E
		1.0	.0	14.5	.60	E
		2.0	.0	14.5	.50	E

AUG 14/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE FISH BARGE	08H 33M	.0	.0	14.5	.65	E
		1.0	.0	14.5	.70	E
		2.0	.0	14.5	.50	E
CHUTE SBM	08H 36M	.0	.0	14.5	.60	E
		1.0	.0	14.5	.65	E
		2.0	.0	14.5	.55	E
		2.5	.1	14.5	.30	E
CHUTE TOP END	08H 42M	.0	.0			
ISL#3 PULLEY	08H 52M	.0	1.7	14.3	.40	E
		.5	2.0	14.3	.35	E
		1.0	2.6	14.3	.20	E
ISL#3 (B4)	09H 00M	.0	2.2	14.5	.35	E
		.5	2.3	14.0	.35	E
		1.0	3.8	14.2	.25	E
LOG BASIN	09H 20M	.0	2.0	15.0	.00	
		1.0	5.4	14.5		
		2.0	26.2	11.5		
		3.0	27.6	11.0		
		4.0	27.6	10.7		
		5.0	27.6	10.5		
MOTHER RAMP	09H 28M	.0	2.6	14.5	.10	E
		1.0	3.2	14.2	.00	
		2.0	27.0	11.2	.00	
TYEE PT	09H 37M	.0	3.8	14.2	.50	E
		1.0	4.9	14.0	.60	E
		2.0	24.9	11.0	.55	E
		3.0	27.2	10.6	.50	E
		4.0	27.6	10.2	.20	E
		4.5	27.9	10.0		
RANGE MARKERS	09H 52M	.0	2.6	14.6	.70	E
		1.0	3.2	14.5	.80	E
		1.5	3.0	14.4		

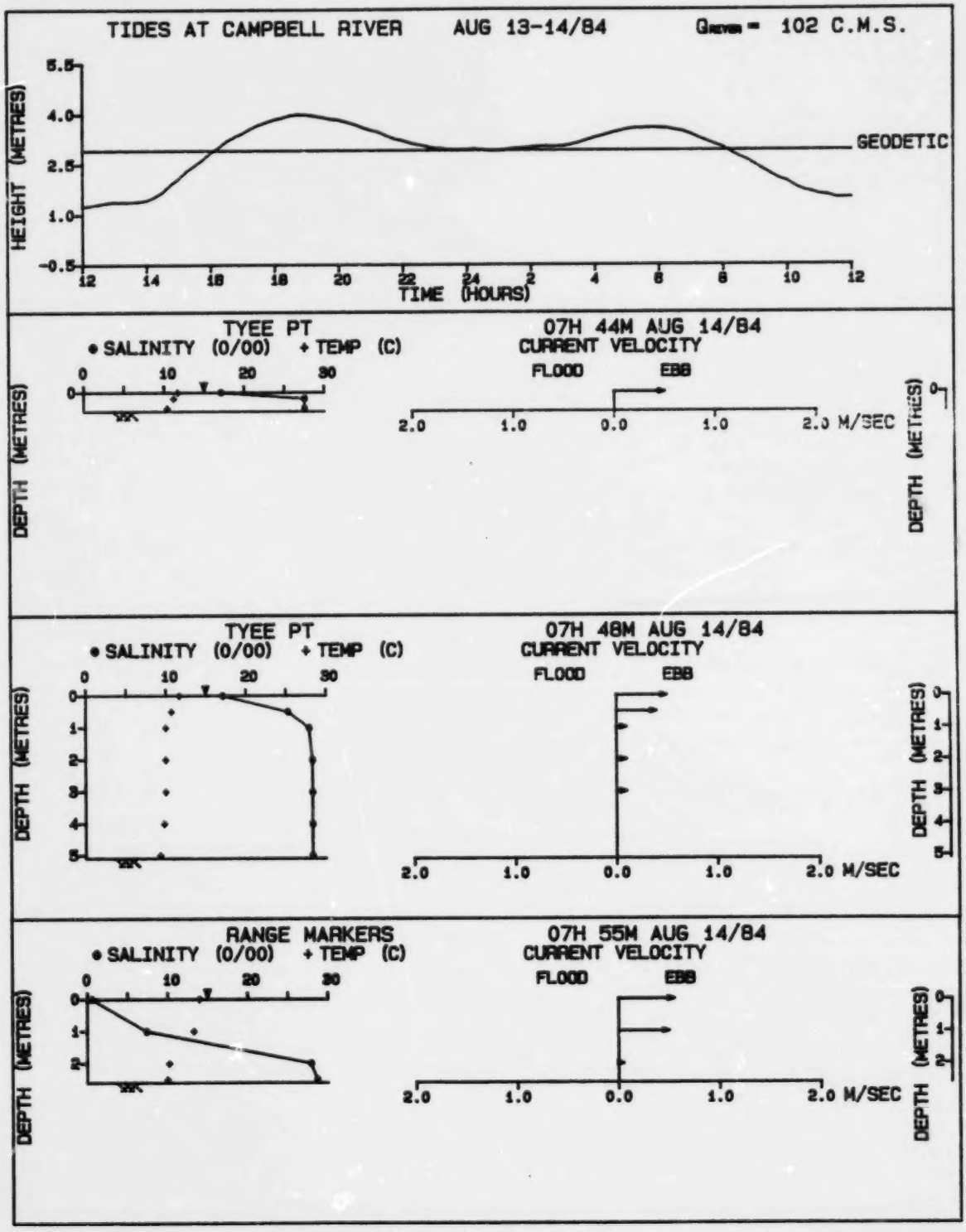
AUG 14/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
GULF SIGN	09H 58M	.0	.2	15.0	.60	E
		1.0	.4	15.0	.70	E
		2.0	1.1	14.8	.70	E
		2.5	5.4	14.0		
FISH STN WHARF	10H 07M	.0	.1	15.0	.65	E
		1.0	.2	15.0	.60	E
		2.0	.2	15.0	.50	E
		3.0	.5	14.8	.50	E
NBM MAIN	10H 12M	.0	.1	14.8	.80	E
		1.0	.1	14.8	.90	E
		2.0	.1	14.8	.90	E
NBM	10H 17M	.0	1.0	15.1	.00	
		1.0	1.0	15.0		
		2.0	22.3	12.0		
BARGE TURN NBM	10H 21M	.0	.7	15.1	.00	
		1.0	.9	14.6		
		2.0	27.2	11.0		
		3.0	27.9	10.6		
		4.0	27.9	10.5		
TUG TURN NBM	10H 23M	.0	.8	15.0	.00	
		1.0	.9	14.5		
		2.0	25.7	11.5		
TYEE PT	10H 32M	.0	1.0	15.0	.60	E
		1.0	3.3	14.6	.60	E
		1.5	3.3	14.8		
		2.0	16.4	12.5	.50	E
		3.0	25.3	11.0	.00	
RANGE MARKERS	10H 42M	.0	.3	15.0	.80	E
		1.0	.3	15.0	.70	E
GULF SIGN	10H 46M	.0	.1	15.0	.80	E
		1.0	.2	15.0	.80	E
		2.0	.4	15.0	.75	E

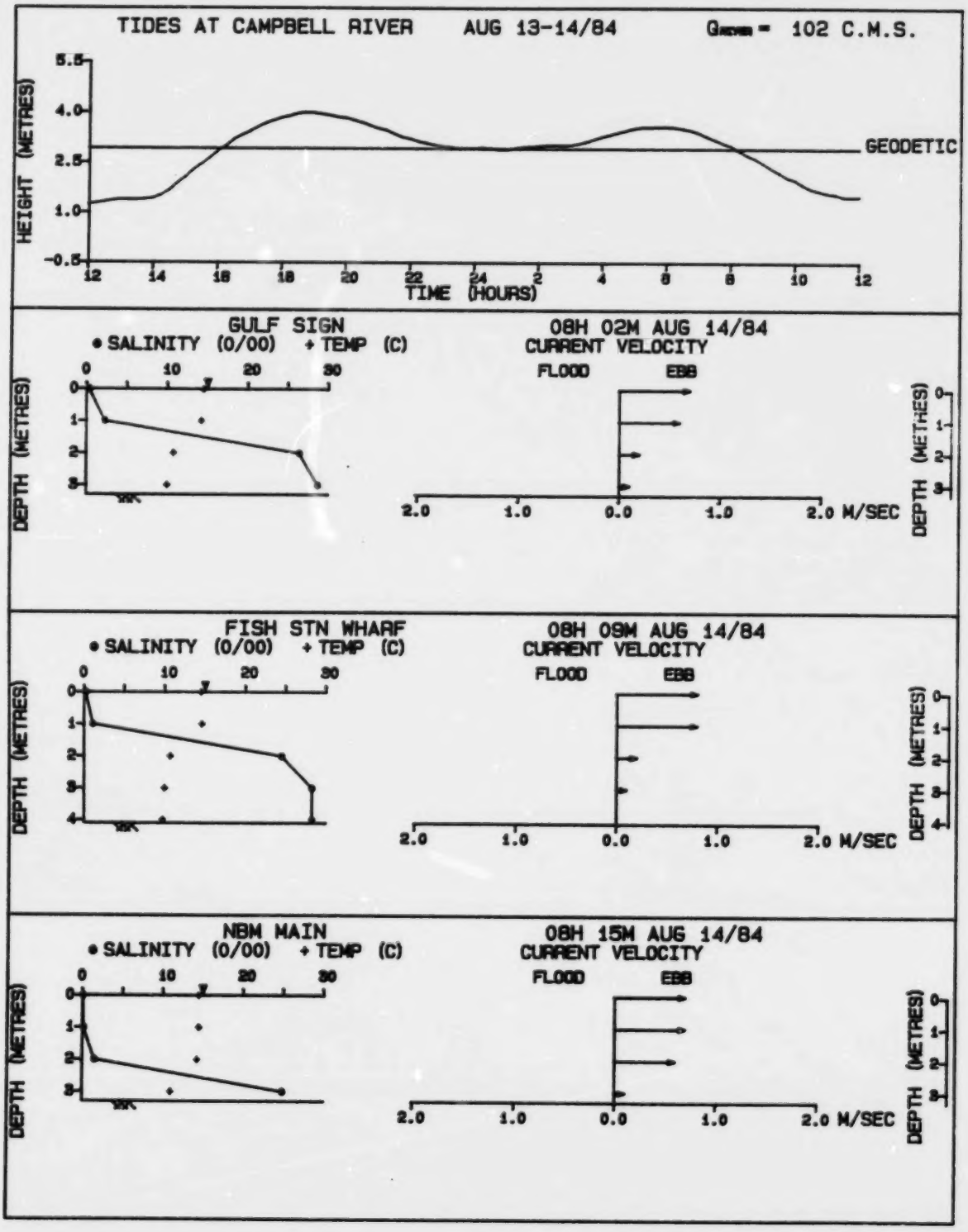
AUG 14/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	10H 50M	.0	.0	15.0	.80	E
		1.0	.0	15.0	.80	E
		2.0	.0	15.0	.75	E
		3.0	.3	15.0		
NBM MAIN	10H 54M	.0	.0	15.0	.90	E
		1.0	.0	15.0	.80	E
		2.0	.0	15.0	.80	E

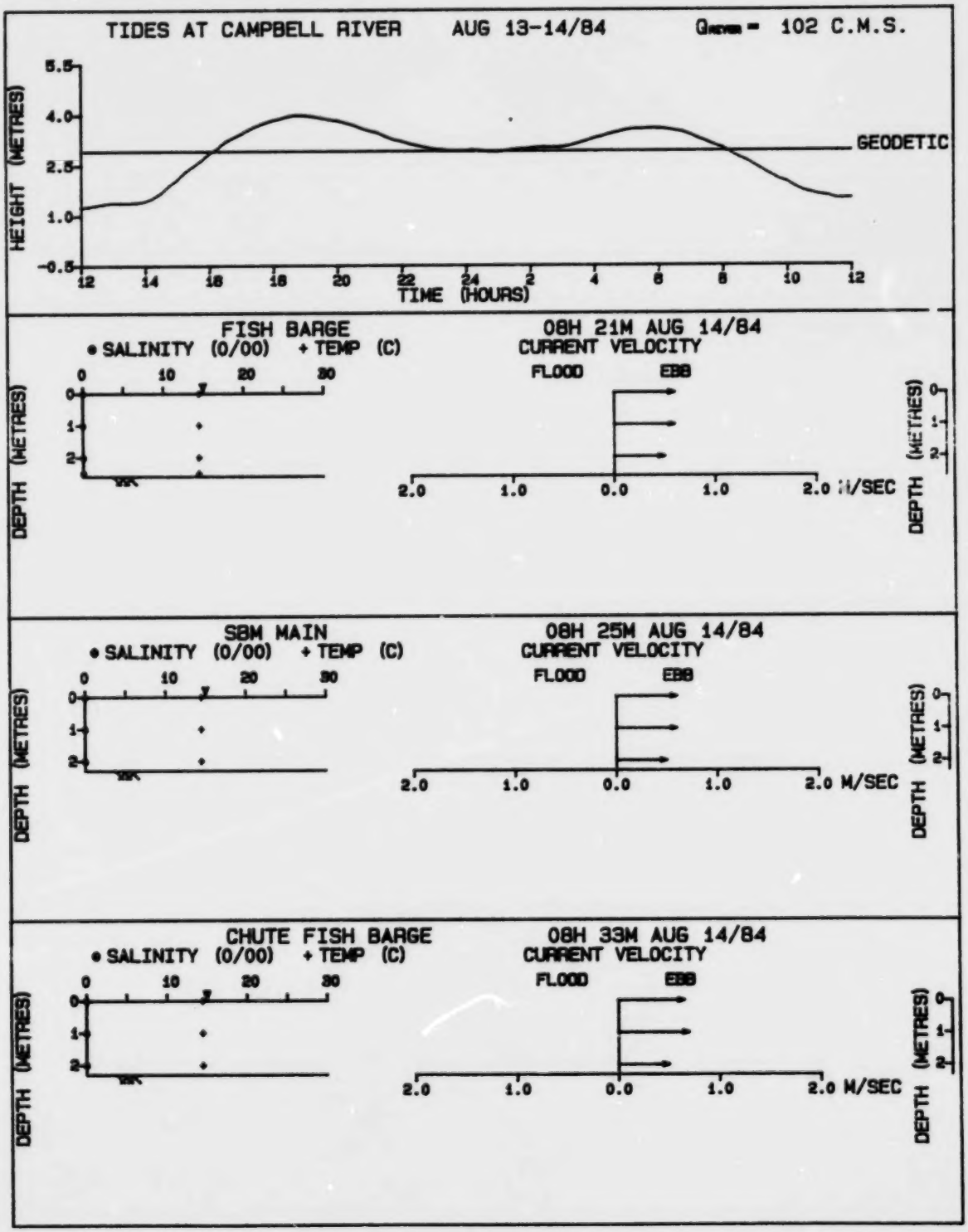
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



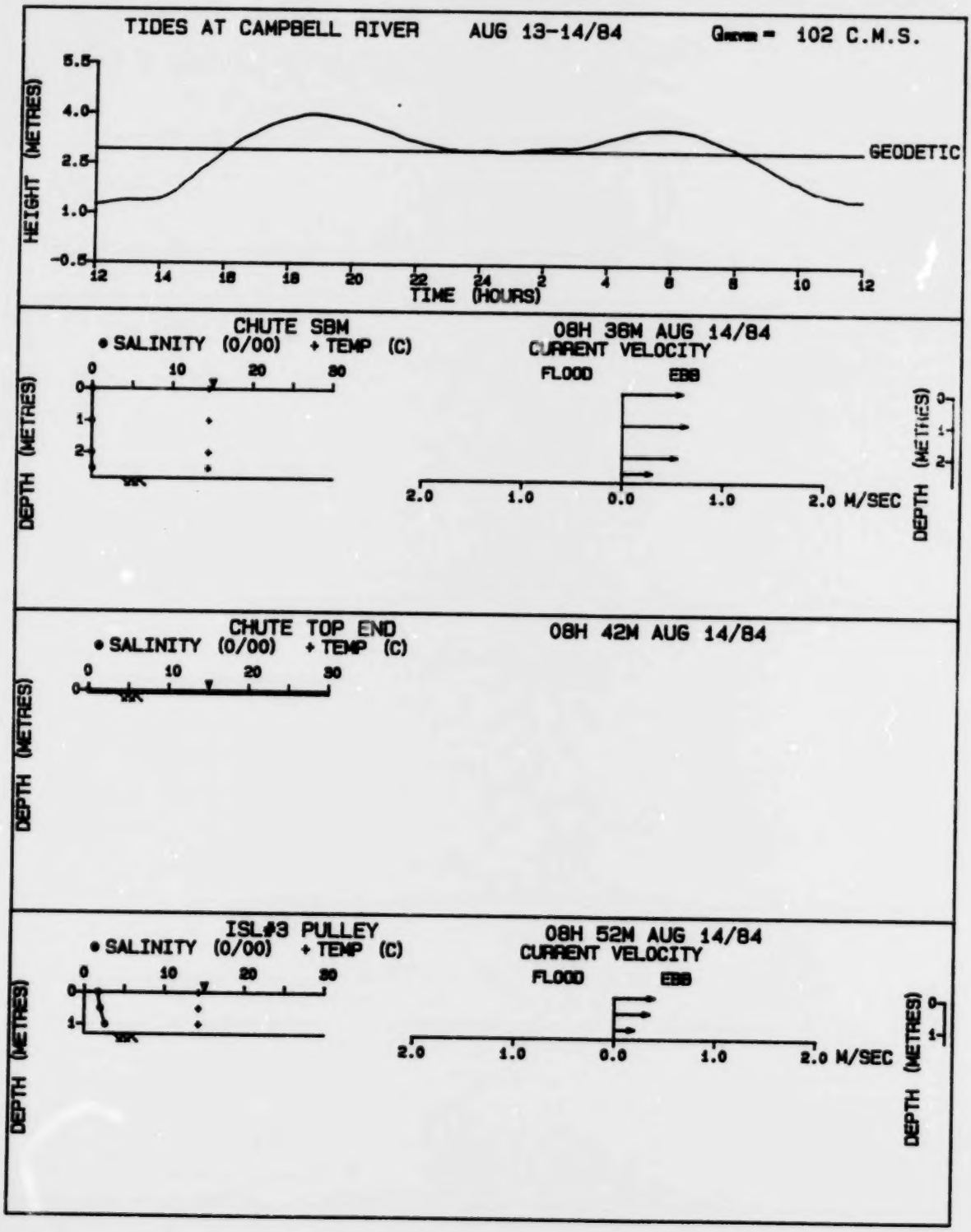
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



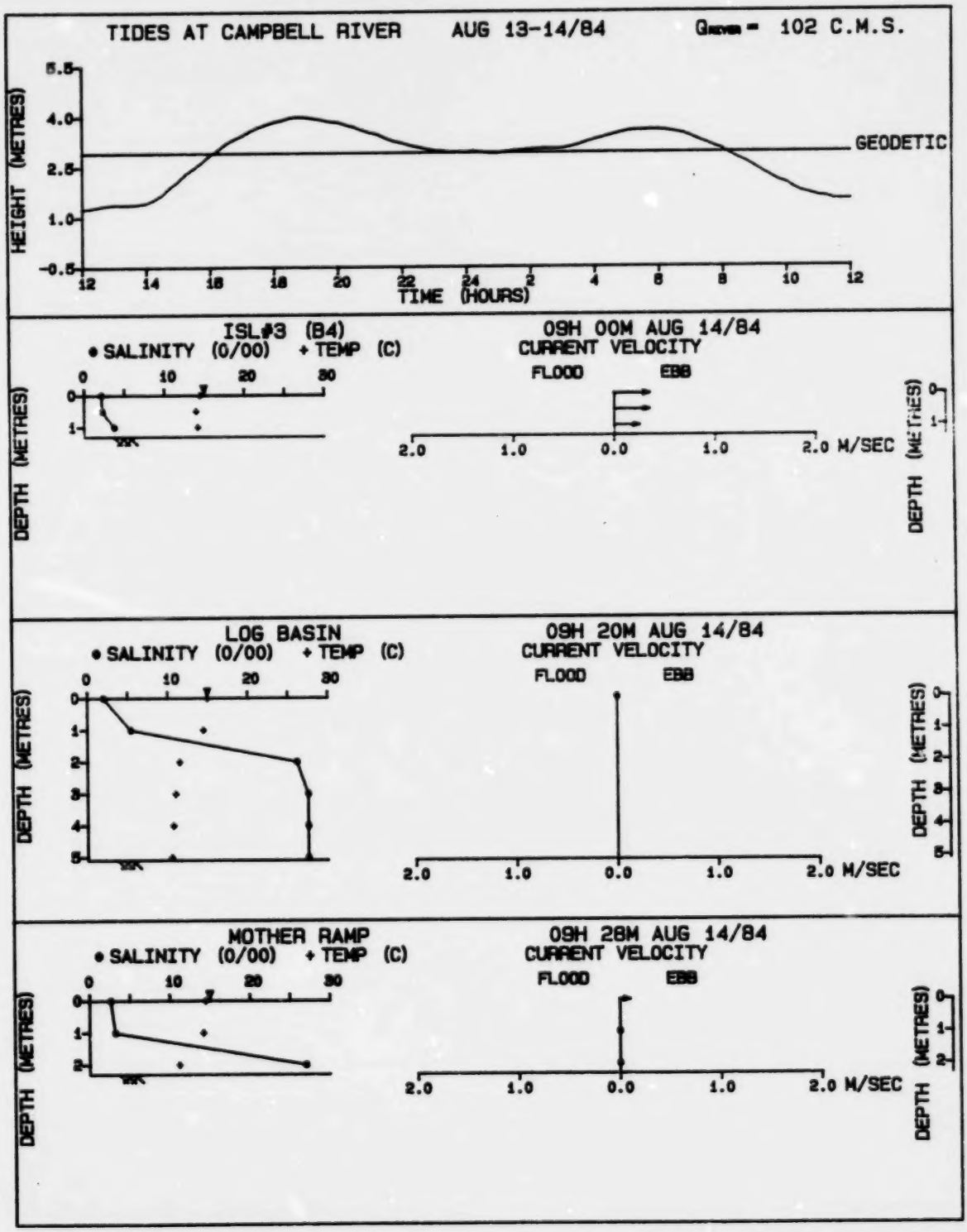
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



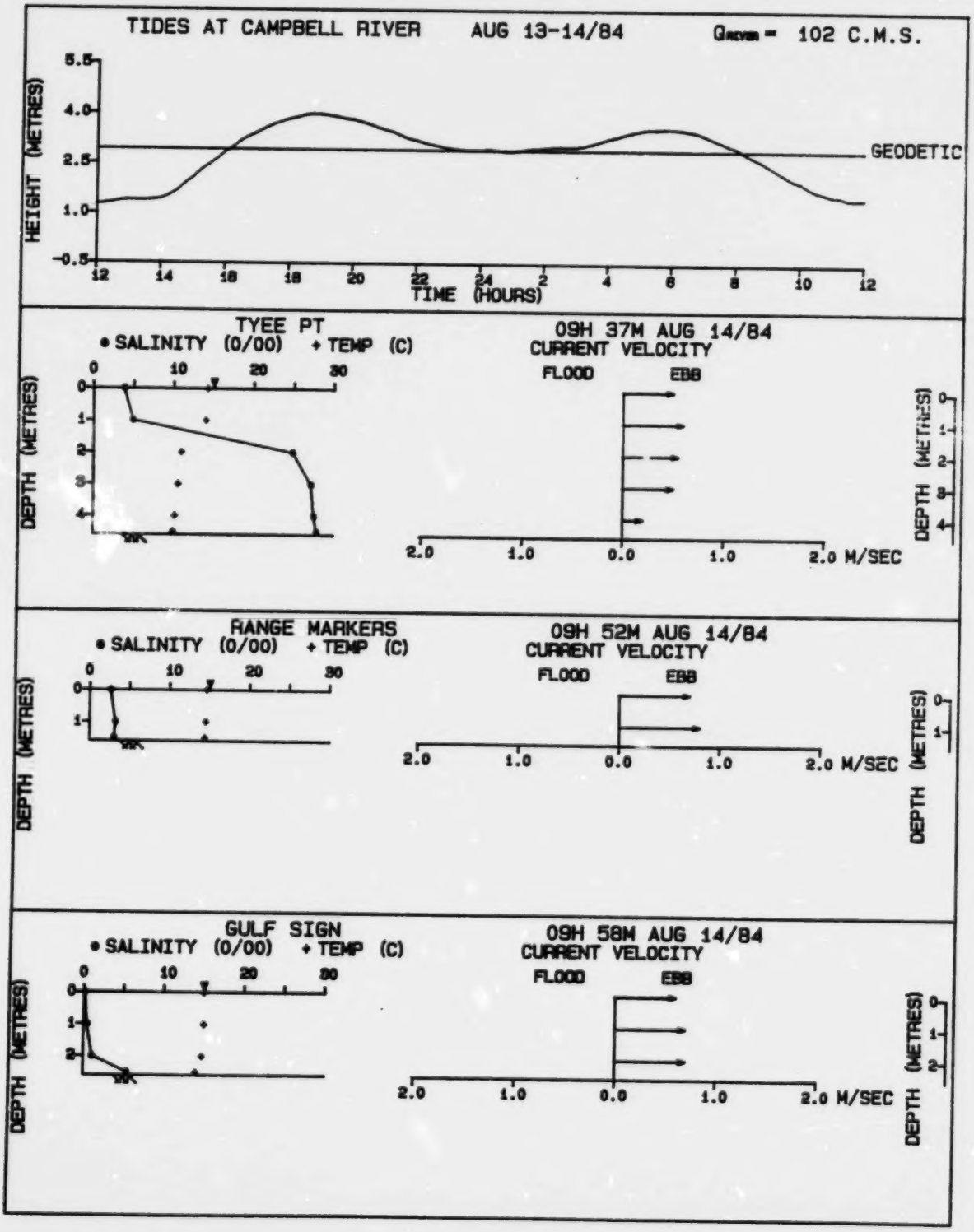
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



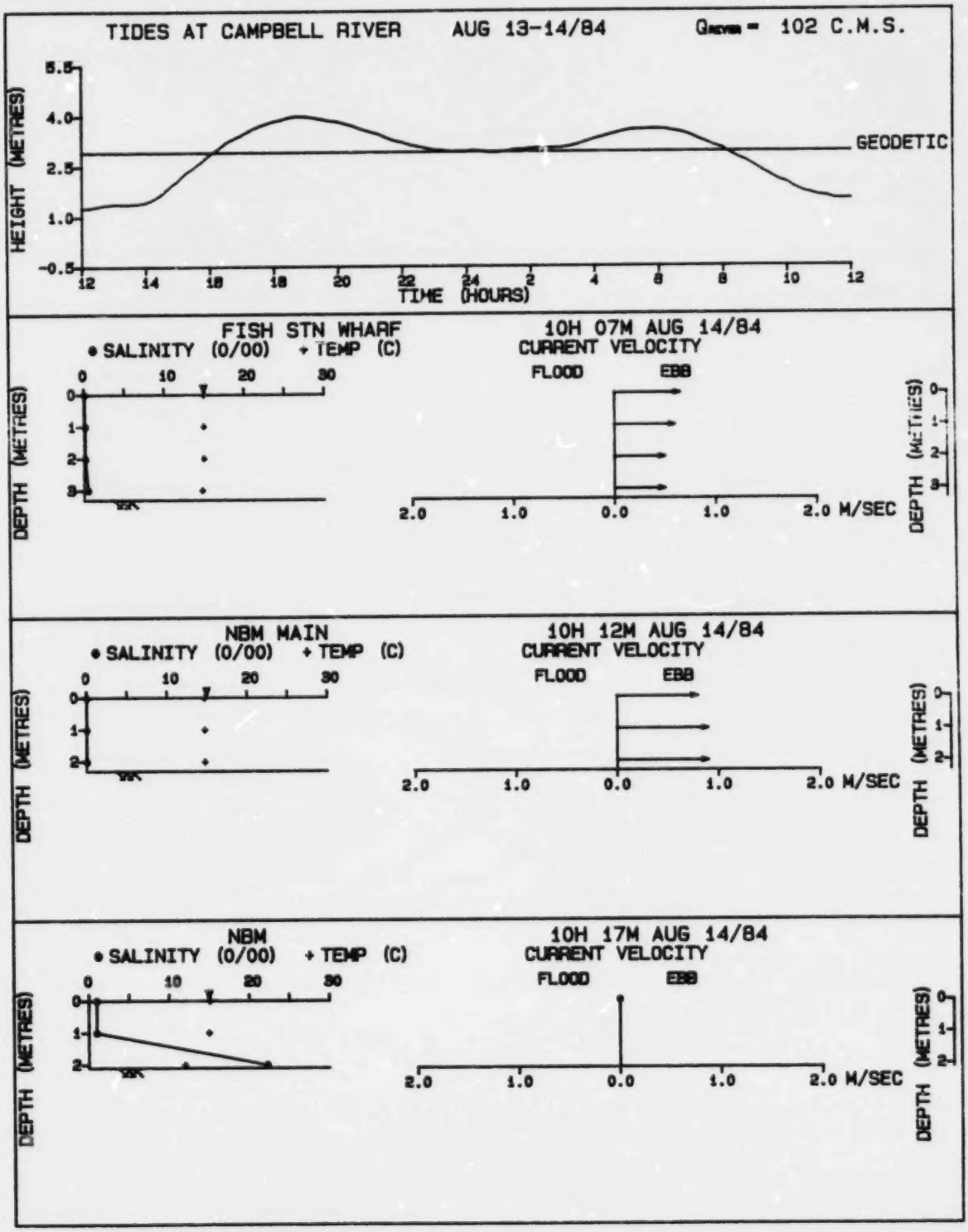
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



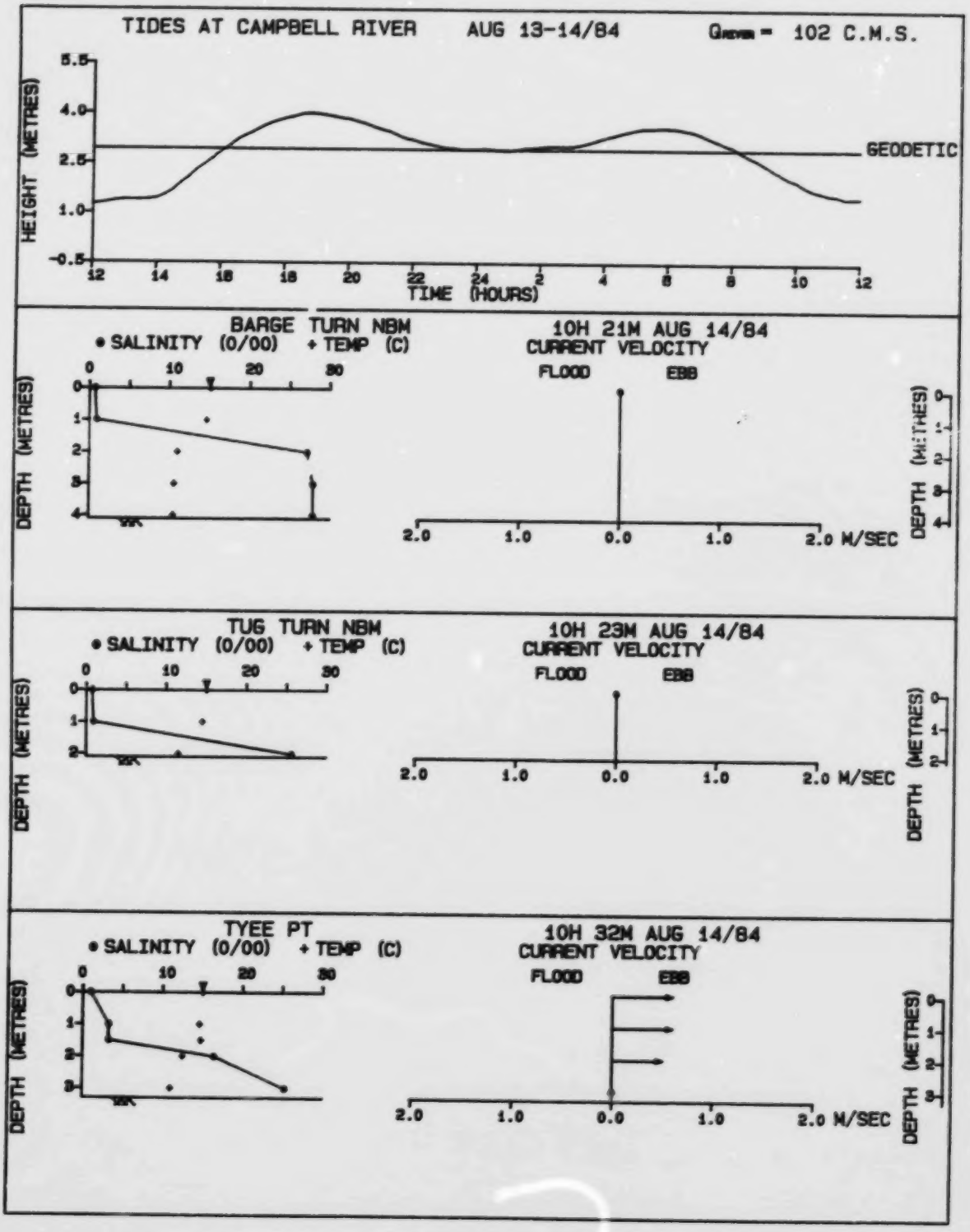
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



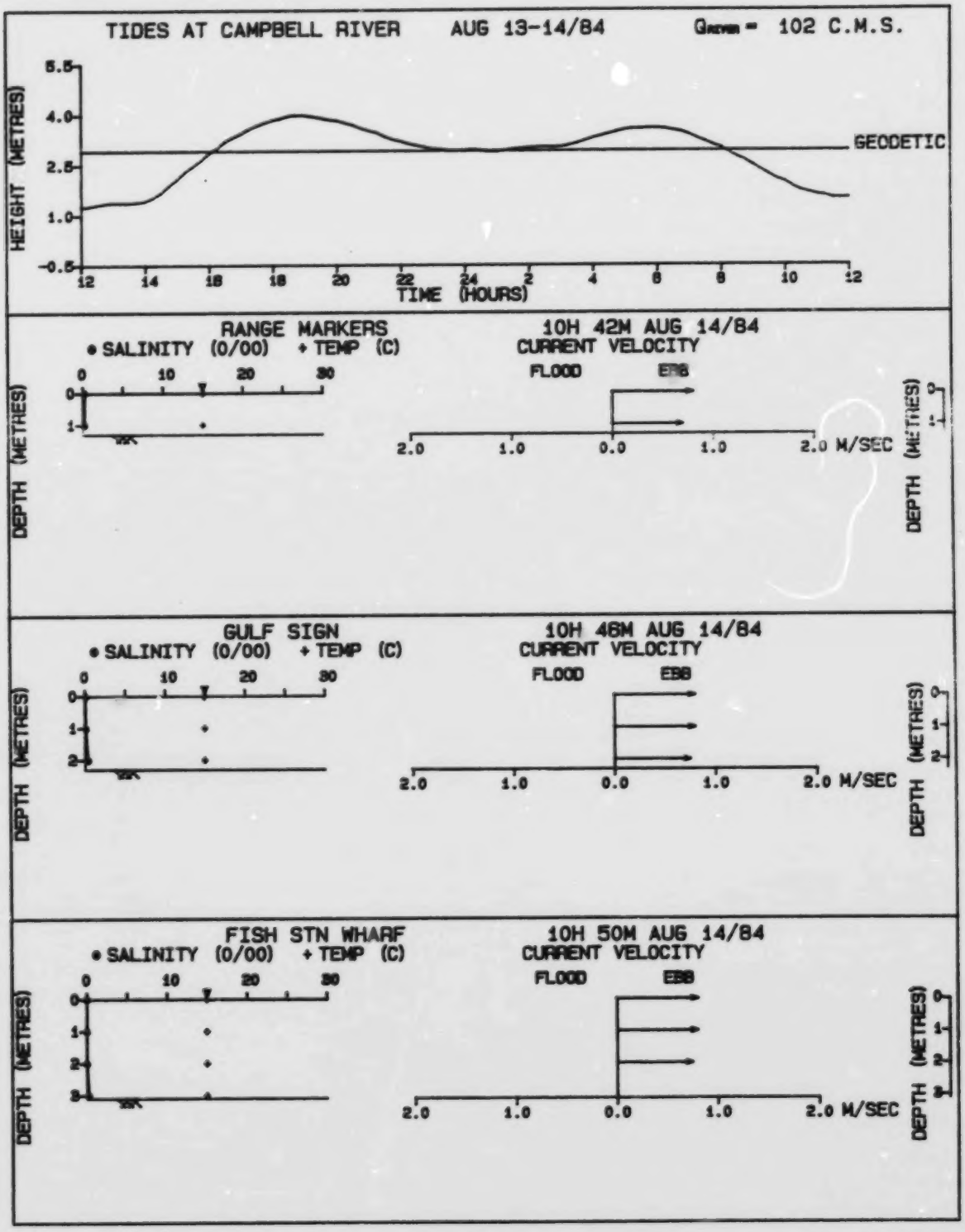
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



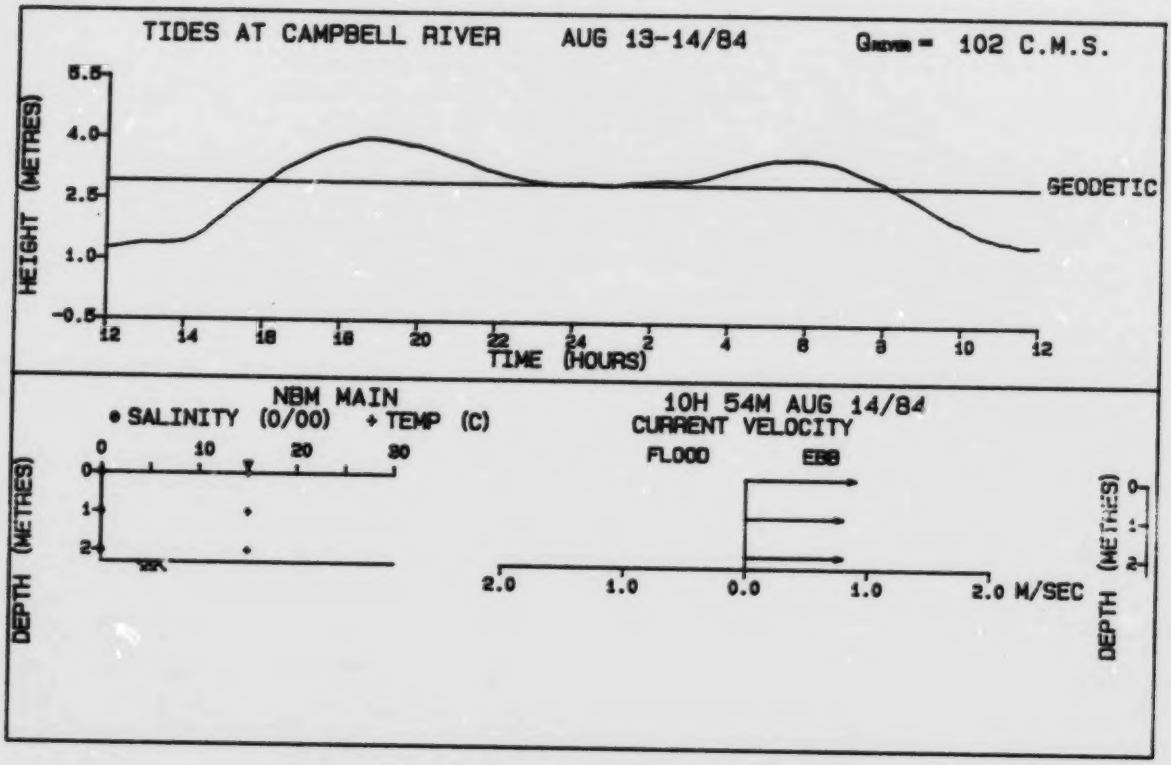
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



AUG 27/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	13H 50M	.0	.9	16.8		
		1.0	17.9	13.6		
		2.0	27.9	11.5		
RANGE MARKERS	14H 00M	.0	.1	16.4		
		1.0	.1	16.4		
GULF SIGN	14H 05M	.0	.1	16.7	.40	E
		1.0	.1	16.5	.25	E
		2.0	.1	16.5	.30	E
		2.5	.1	16.5	.25	E
FISH STN WHARF	14H 09M	.0	.0	16.3	.25	E
		1.0	.0	16.3	.30	E
		2.0	.0	16.3	.20	E
		3.0	.0	16.3	.20	E
NBM MAIN	14H 14M	.0	.0		.45	E
		1.0	.0		.50	E
		2.0	.0		.40	E
		2.5	.0		.40	E
FISH BARGE	14H 17M	.0	.0		.46	E
		1.0	.0		.50	E
		1.5	.0		.50	E
NBM	14H 19M	.0	4.3	16.3	.00	
		1.0	1.4	16.3		
		2.0	5.2	15.8		
BARGE TURN NBM	14H 25M	.0	2.9	16.0	.00	
		1.0	3.6	16.0		
		2.0	3.9	15.9		
		3.0	4.0	15.9		
		4.0	3.5	15.9		
TUG TURN NBM	14H 28M	.0	4.0	15.8	.00	
		1.0	4.0	15.8		
		2.0	4.1	15.8		
		2.5	4.1	15.8		

AUG 27/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	14H 37M	.0	1.6	15.6	.25	E
		1.0	18.6	13.5	.20	E
		2.0	28.7	10.7		
		2.5	29.5	10.5		
RANGE MARKERS	14H 49M	.0	.6	15.3	.15	E
		1.0	4.1	15.3	.15	E
		2.0	28.7	11.5	.20	E
GULF SIGN	14H 55M	.0	.1	15.5	.20	E
		1.0	.3	15.6	.20	E
		2.0	2.9	15.6	.02	F
		3.0	24.5	11.8	.30	F
		4.0	27.7	11.2	.40	F
FISH STN WHARF	14H 59M	.0	.1	15.7	.05	E
		1.0	.1	15.7	.10	E
		2.0	3.6	15.4	.20	F
		3.0	24.9	12.0	.15	F
		3.5	26.0	11.5		
NBM MAIN	15H 05M	.0	.0	15.6	.15	E
		1.0	.0	15.7	.32	E
		2.0	1.1	15.8	.20	E
		2.7			.25	F
		3.0	22.6	12.4	.30	F
		3.5	24.0	12.0		
FISH BARGE	15H 12M	.0	.0	15.7	.20	E
		1.0	.0	15.7	.25	E
		2.0	.0	15.8	.25	E
		2.5	.0	15.7		
TYEE PT	15H 26M	.0	2.6	15.5	.60	E
		1.0	27.2	11.2	.40	F
		2.0	28.3	11.0	.30	F
		3.0	29.1	10.5	.40	F
		4.0	29.1	10.5		
		5.0	29.5	10.5		
RANGE MARKERS	15H 36M	.0	2.0	15.5	.25	E
		1.0	5.4	15.5	.15	E

AUG 27/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
RANGE MARKERS	15H 36M	1.5			.10	F
		2.0	28.7	11.3	.15	F
		2.5	28.7	11.2	.25	F
GULF SIGN	15H 41M	.0	.1	15.5	.40	E
		1.0	.5	15.5	.40	E
		2.0	7.4	14.5	.10	E
		2.2			.05	F
		2.5			.15	F
		3.0	27.2	11.5	.20	F
		4.0	28.3	11.0	.35	F
		5.0	28.7	11.0		
FISH STN WHARF	15H 47M	.0	.1	15.5	.20	E
		1.0	.3	15.5	.20	E
		1.9			.02	F
		2.0	1.0	14.2	.10	F
		3.0	25.7	11.5	.10	F
		4.0	28.3	11.5	.20	F
		4.5	28.3	11.5		
NBM MAIN	15H 55M	.0	.0	15.5	.40	E
		1.0	.0	15.5	.50	E
		2.0	6.7	14.8	.30	E
		2.5			.04	F
		3.0	26.8	11.5	.10	F
		3.5			.15	F
		4.0	27.2	11.3		
FISH BARGE	16H 02M	.0	.0	15.5	.40	E
		1.0	.1	15.5	.40	E
		2.0	.2	15.5	.50	E
		2.2	.4	15.5		
		2.4			.00	
		2.5	26.0	12.5	.10	F
		3.0	26.8	11.5	.10	F
SBM MAIN	16H 08M	.0	.0	15.5	.20	E
		1.0	.0	15.5	.30	E
		2.0	.0	15.5	.30	E
		2.5			.20	E
		3.0	.0	15.5		

AUG 27/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	16H 21M	.0	2.0	15.5	.30	E
		.5	8.7	14.2	.15	E
		1.0	20.1	12.5	.10	E
		1.5	28.3	10.5	.20	E
		2.0	29.1	10.5	.20	F
		2.5			.20	F
		3.0	29.1	10.2	.20	F
		3.5			.20	F
		4.0	29.1	10.2	.25	F
		4.5			.20	F
		5.0	29.2	10.2	.15	F
RANGE MARKERS	16H 29M	.0	.8	15.5	.50	E
		.5	4.1	15.2	.40	E
		1.0	10.1	14.5	.30	E
		1.5	23.8	12.0	.05	E
		1.6			.05	F
		2.0	28.3	10.8	.10	F
		2.5	28.7	10.5	.10	F
		3.0	28.5	10.6	.10	F
		3.5	28.7	10.5		
GULF SIGN	16H 36M	.0	.1	15.0	.50	E
		.5	1.7	15.5	.50	E
		1.0	4.8	15.0	.35	E
		1.5	12.9	13.5	.15	E
		1.6			.00	
		2.0	21.5	12.0	.10	F
		2.5	26.0	11.3	.20	F
		3.0	27.9	11.0	.20	F
		3.5	28.3	10.5	.17	F
		4.0	28.3	10.6	.10	F
		4.5	28.5	10.5	.10	F
		5.0	28.3	10.5	.10	F
FISH STN WHARF	16H 45M	.0	.0	15.5	.50	E
		.5	.8	15.5	.50	E
		1.0	2.6	15.2	.40	E
		1.5	10.8	14.0	.20	E
		1.7			.05	F
		2.0	23.0	12.0	.15	F
		2.5	27.6	11.3	.10	F
		3.0	28.3	11.0	.10	F
		3.5	28.3	11.0	.10	F
		4.0	28.3	11.0	.15	F
		4.5			.20	F

AUG 27/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (C/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	16H 45M	5.0	28.3	10.8	.15	F
NBM MAIN	16H 55M	.0	.0	15.5	.50	E
		.5	.2	15.5	.60	E
		1.0	.3	15.5	.55	E
		1.5	4.8	15.0	.45	E
		1.9			.15	E
		2.0	23.8	12.5		
		2.1			.05	F
		2.5			.04	F
		3.0	27.2	11.4	.05	F
		3.5	27.6	11.5	.10	F
		4.0	27.7	11.0	.10	F
FISH BARGE	17H 00M	.0	.0	15.5	.35	E
		.5	.0	15.5	.45	E
		1.0	.2	15.5	.45	E
		1.5	.6	15.5	.45	E
		1.8	1.4	15.5		
		2.0	1.0	14.2	.35	E
		2.2			.05	F
		2.5	26.2	11.5	.15	F
		3.0	27.6	11.2	.20	F
		3.5	27.6	11.2	.15	F
SBM MAIN	17H 08M	.0	.0	15.5	.35	E
		.5	.0	15.5	.40	E
		1.0	.0	15.5	.40	E
		1.5	.1	15.5	.40	E
		1.8	.3	15.5		
		2.0	6.1	15.0	.30	E
		2.2			.00	
		2.4			.00	
		2.5	13.6	14.0	.05	F
		3.0	26.8	11.6	.05	F
FRED'S MAIN	17H 14M	.0	.0	15.5	.40	E
		.5	.0	15.5	.35	E
		1.0	.0	15.5	.30	E
		1.5	.0	15.5	.35	E
		2.0	.1	15.5	.30	E
		2.5	10.1	14.5	.20	E
		3.0	24.1	12.5		
		3.5	26.0	11.5		

AUG 27/84

RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ORANGE CRANE	17H 20M	.0	.0	15.5	.30	E
		.5	.0	15.5		
		1.0	.0	15.5	.40	E
		1.5	.0	15.5		
		2.0	.0	15.5	.35	E
		2.5	.0	15.5		
		3.0	.0	15.5	.25	E
TYEE PT	17H 45M	.0	5.4	14.5	.30	E
		.5	20.8	12.0	.30	E
		1.0	22.3	11.6	.20	E
		1.5	27.2	11.0	.10	E
		2.0	27.9	10.5	.00	
		2.5	28.7	10.5	.00	
		3.0	28.7	10.5	.02	F
		3.5	28.7	10.5	.02	F
		4.0	29.1	10.5	.00	
		4.5			.02	F
		5.0			.02	F
RANGE MARKERS	17H 54M	.0	6.1	14.5	.45	E
		.5	11.5	13.8	.45	E
		1.0	13.6	13.3	.25	E
		1.5	24.1	11.5	.10	E
		1.8			.10	F
		2.0	28.3	10.5	.10	F
		2.5	28.7	10.5	.05	F
		3.0	28.3	10.5	.10	F
GULF SIGN	18H 01M	.0	1.1	15.5	.55	E
		.5	2.0	15.5	.60	E
		1.0	10.8	14.0	.40	E
		1.5	16.4	13.0	.15	E
		1.9			.00	
		2.0	26.0	11.5	.00	
		2.1			.05	F
		2.5	27.6	11.0	.10	F
		3.0	27.6	10.8	.20	F
		3.5	28.3	10.4	.20	F
		4.0	28.7	10.5	.20	F
		4.5			.15	F
		5.0			.20	F
FISH STN WHARF	18H 09M	.0	.8	15.5	.65	E
		.5	1.2	15.5	.60	E

AUG 27/84

RIVER DISCHARGE = 102 CU.M/SEC

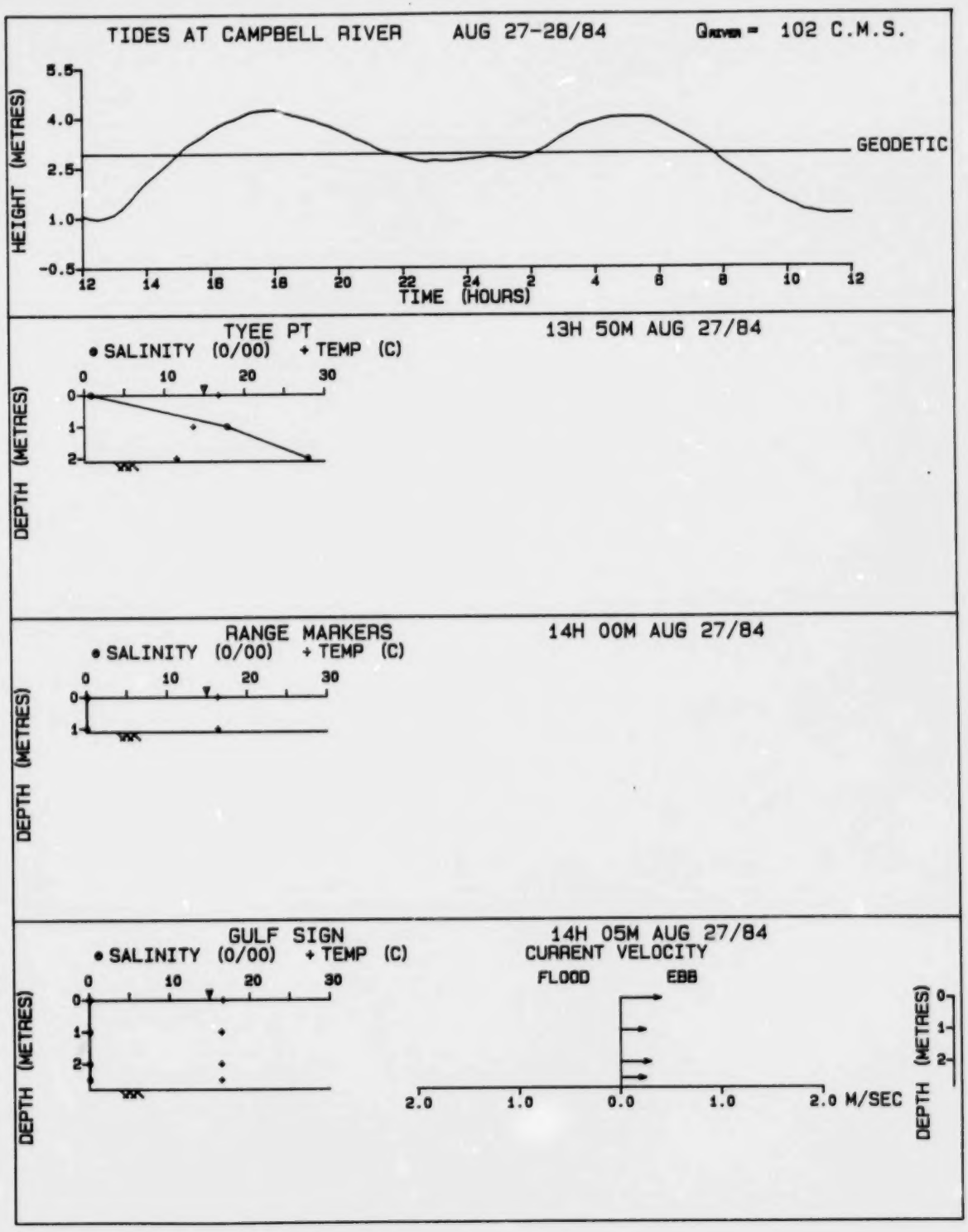
LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	18H 09M	1.0	9.1	14.4	.45	E
		1.5	17.1	13.2	.40	E
		2.0	23.4	11.7	.10	F
		2.5	27.9	11.0	.10	F
		3.0	27.9	10.5	.10	F
		3.5	28.3	10.5	.05	F
		4.0	28.3	10.5	.05	F
		4.5	28.7	10.5	.05	F
		5.0	29.1	10.5	.05	F
NBM MAIN	18H 16M	.0	.0	15.5	.75	E
		.5	.1	15.5	.75	E
		1.0	.6	15.5	.70	E
		1.5	1.7	15.2	.70	E
		2.0	19.3	13.0	.40	E
		2.5	25.3	11.5	.10	E
		2.8			.05	E
		3.0	26.8	11.0	.05	F
		3.5	28.3	11.0	.10	F
		4.0	28.7	10.5	.10	F
		4.5	28.3	10.5		
FISH BARGE	18H 22M	.0	.0	15.5	.40	E
		.5	.1	15.5	.40	E
		1.0	.2	15.5	.50	E
		1.5	2.3	15.5	.50	E
		2.0	2.5	15.5	.45	E
		2.5	9.4	14.0	.30	E
		2.6			.10	E
		2.9			.10	F
		3.0	27.6	11.0	.10	F
		3.5	27.9	10.7	.05	F
		4.0			.05	F
SBM MAIN	18H 28M	.0	.0	15.5	.30	E
		.5	.0	15.5	.40	E
		1.0	.0	15.5	.40	E
		1.5	.2	15.5	.40	E
		2.0	.4	15.5	.45	E
		2.5	3.8	15.2	.45	E
		3.0	23.4	12.4	.20	E
FRED'S MAIN	18H 33M	.0	.0	15.5	.30	E
		.5	.0	15.5	.40	E
		1.0	.0	15.5	.35	E

AUG 27/84

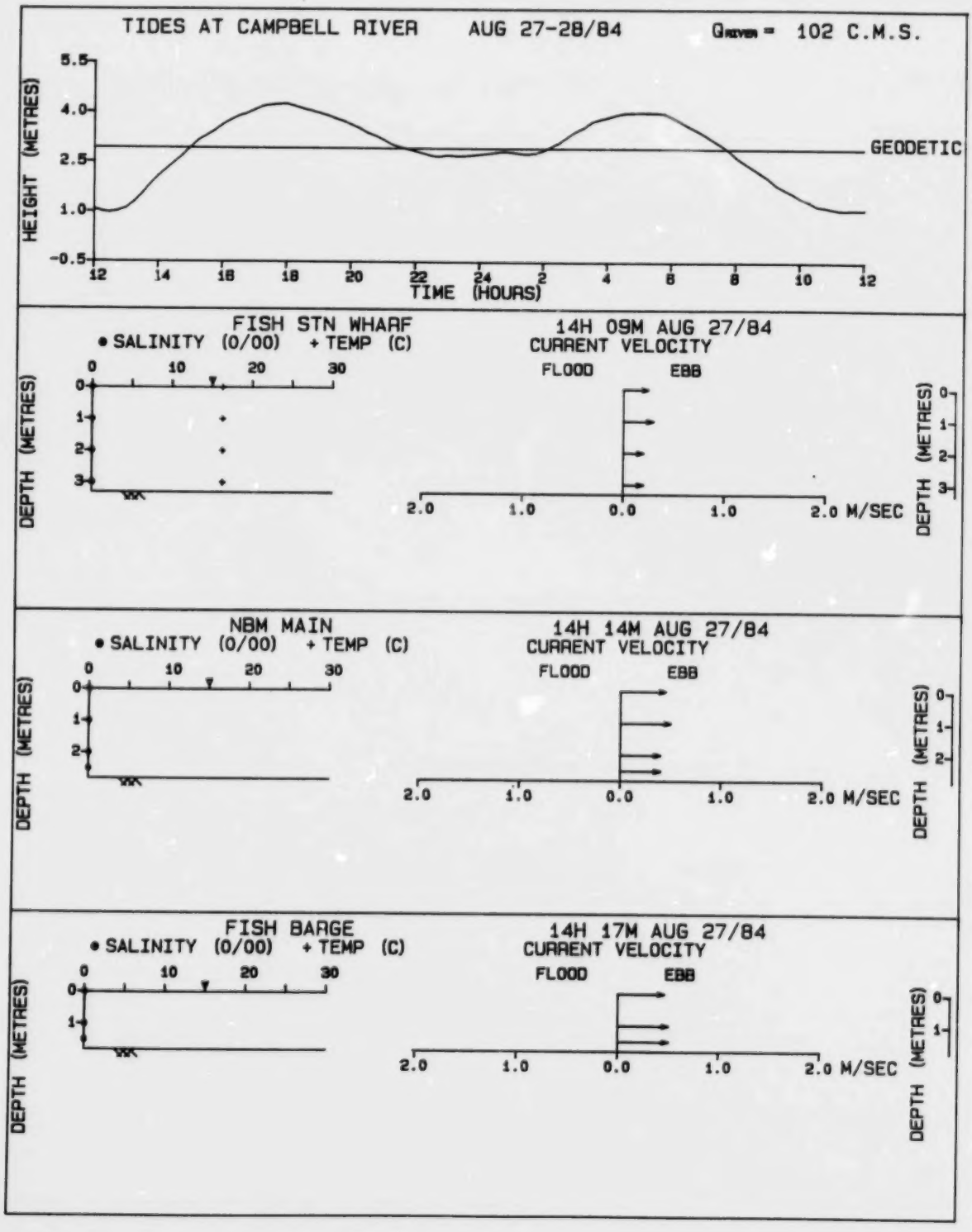
RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FRED'S MAIN	18H 33M	1.5	.0	15.5	.30	E
		2.0	.1	15.5	.25	E
		2.5	.8	15.5	.20	E
ORANGE CRANE	18H 37M	.0	.0	15.5	.40	E
		.5			.40	E
		1.0	.0	15.5	.40	E
		1.5			.40	E
		2.0	.0	15.5	.35	E
		2.5	.0	15.5		

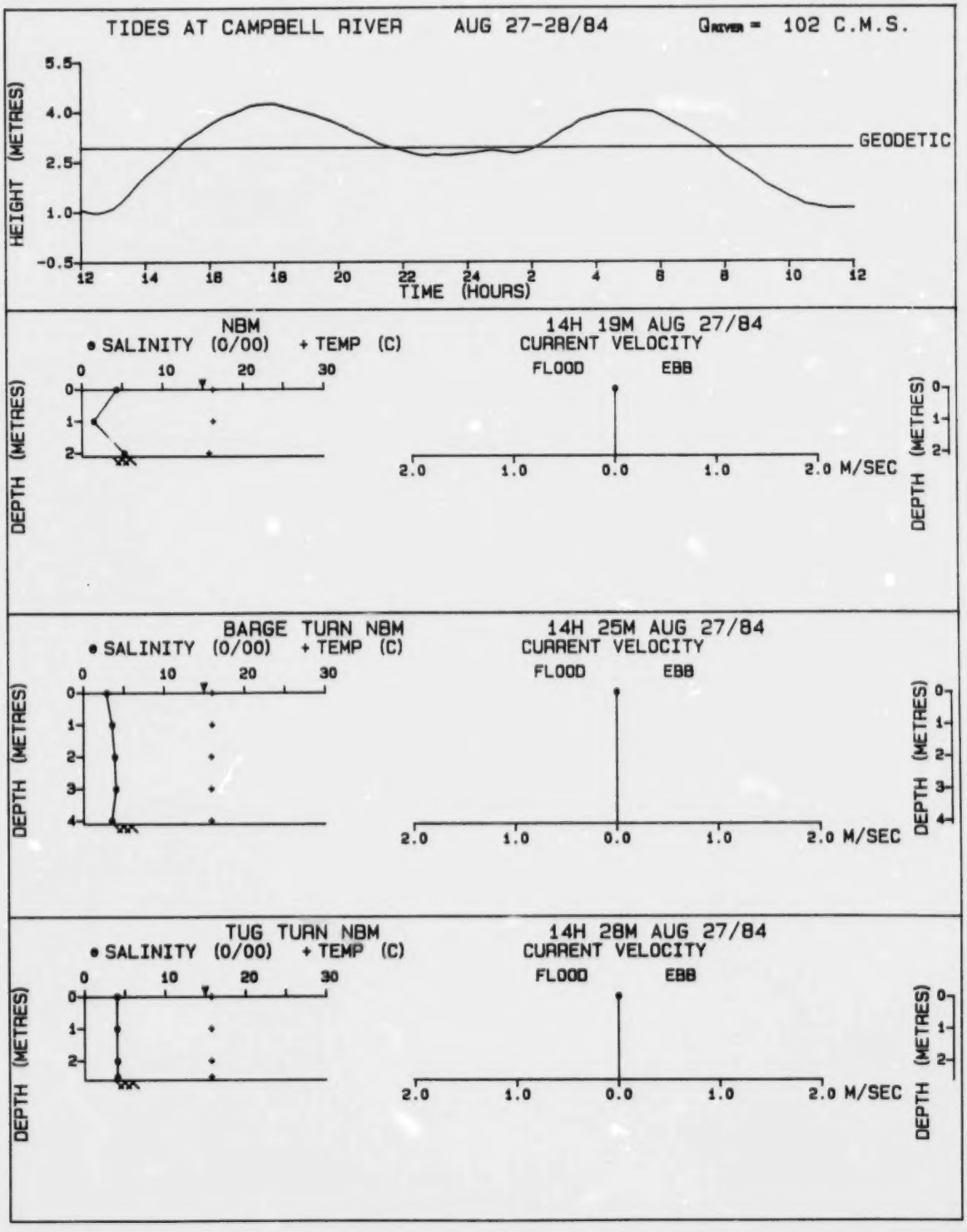
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



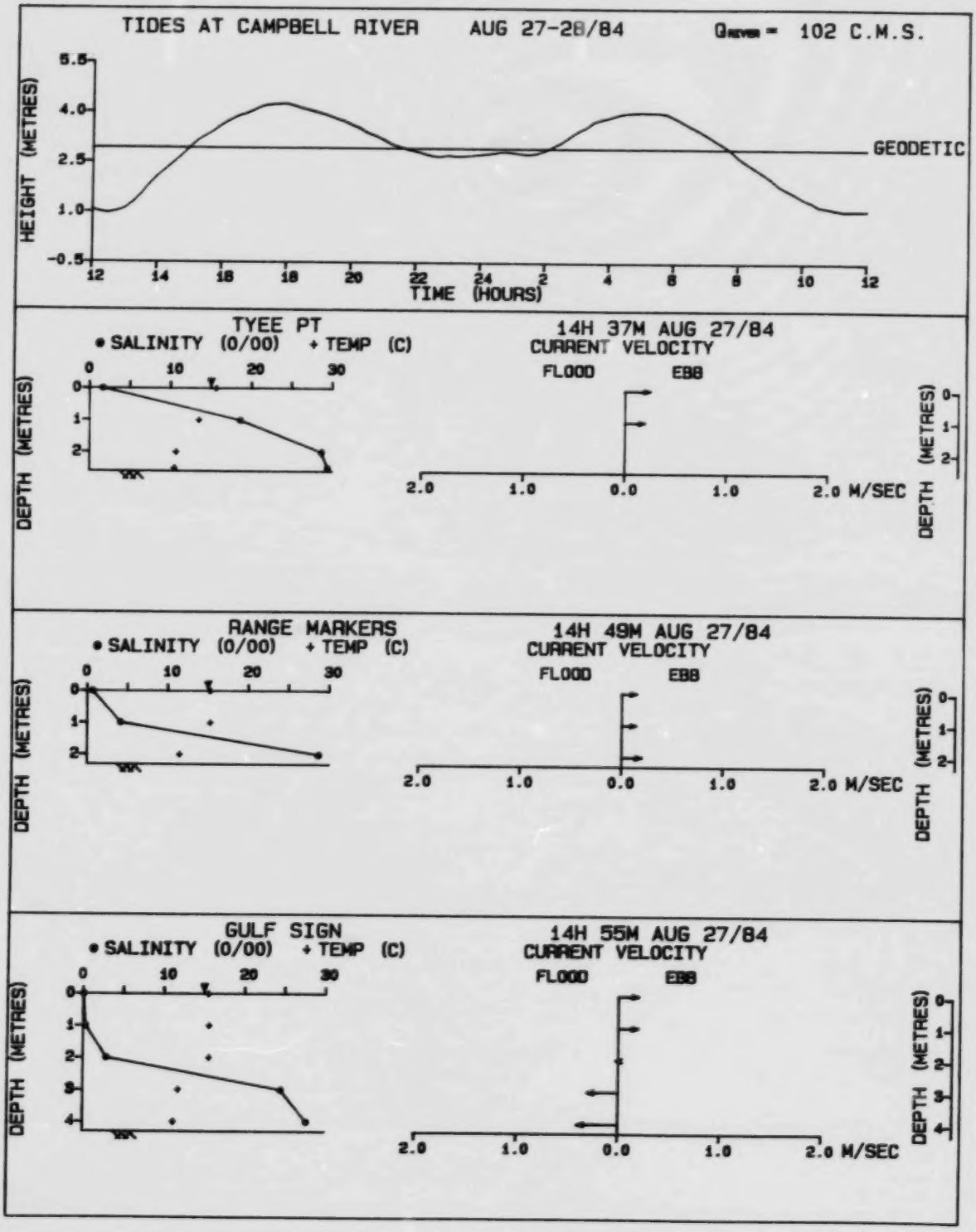
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



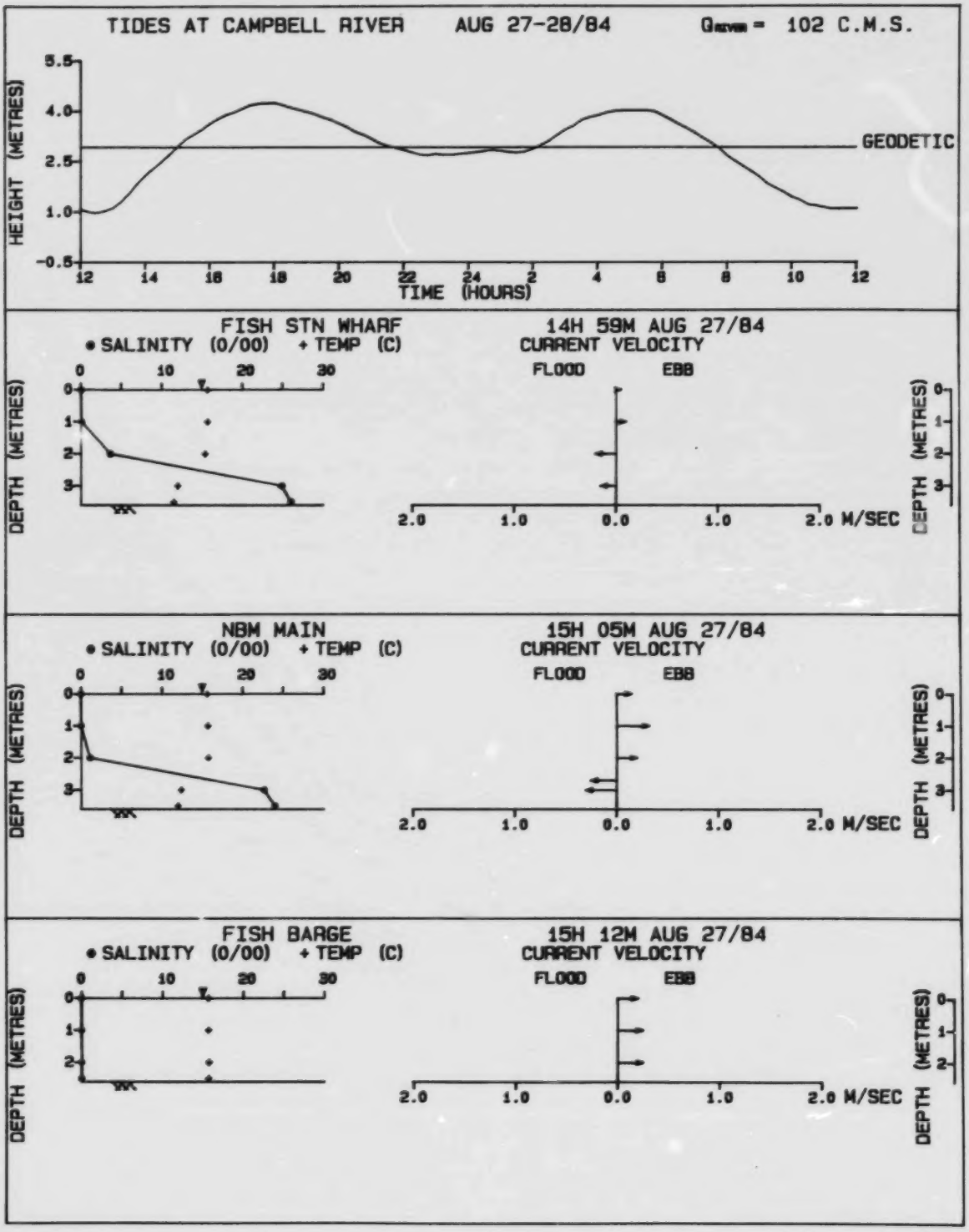
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



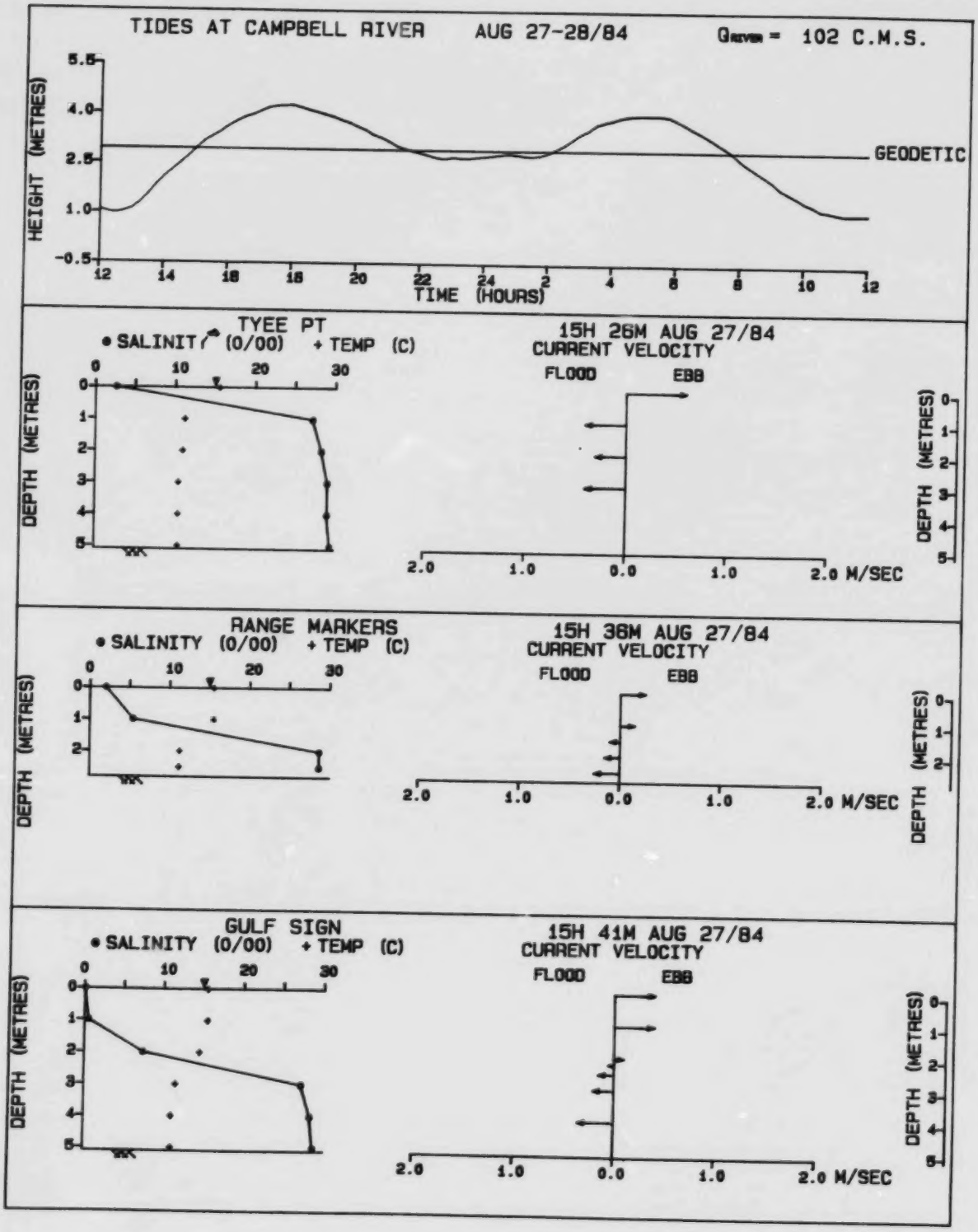
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



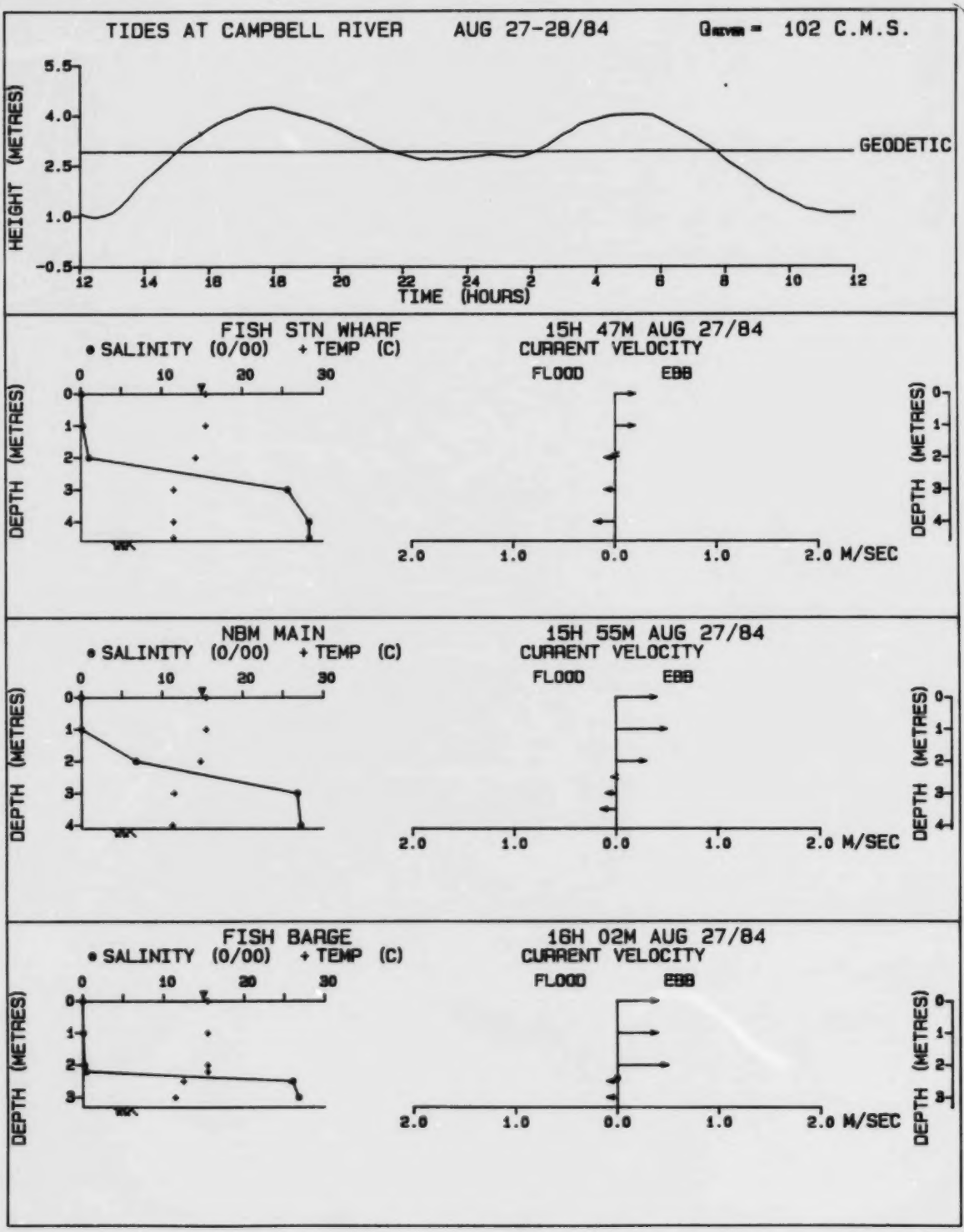
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



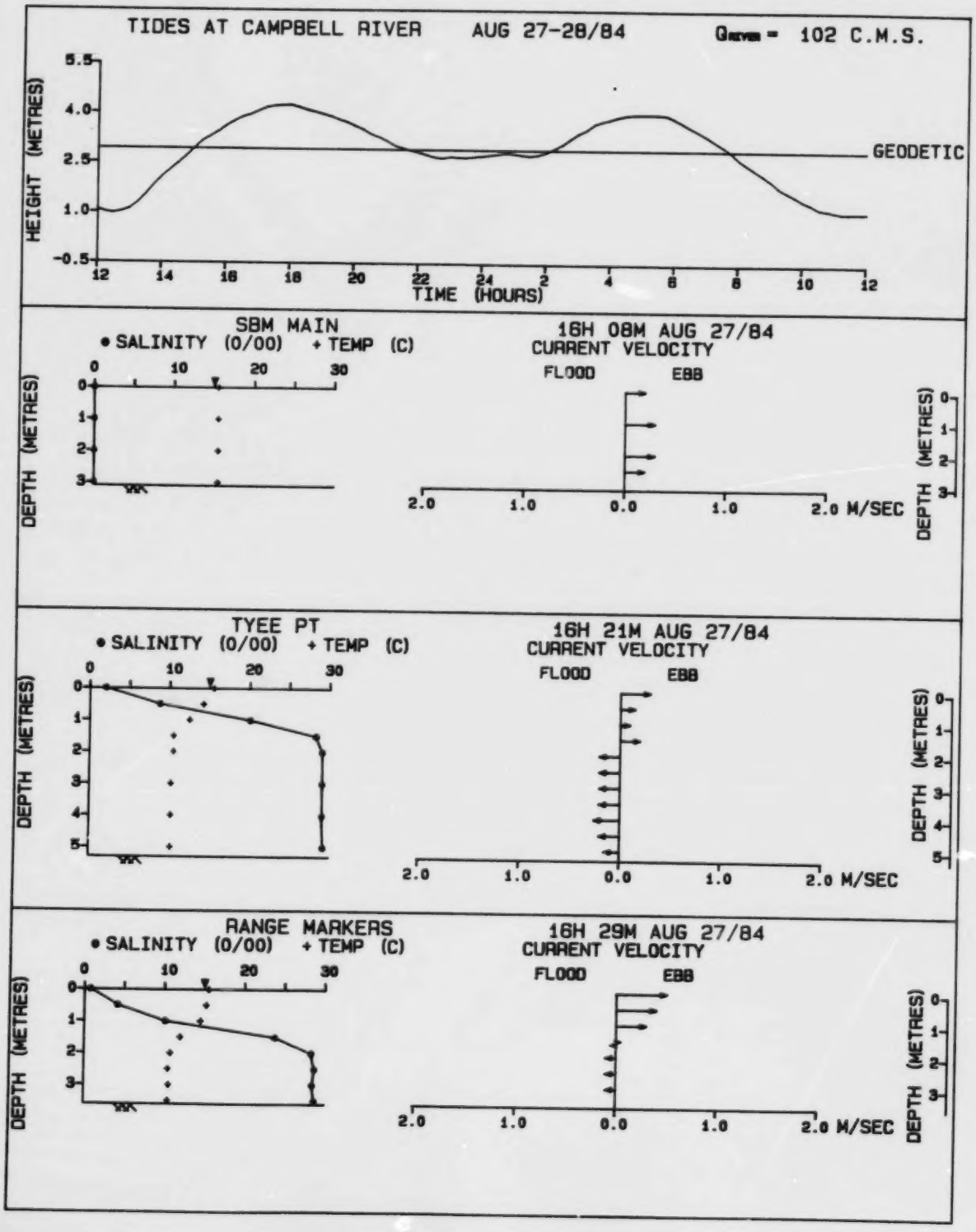
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



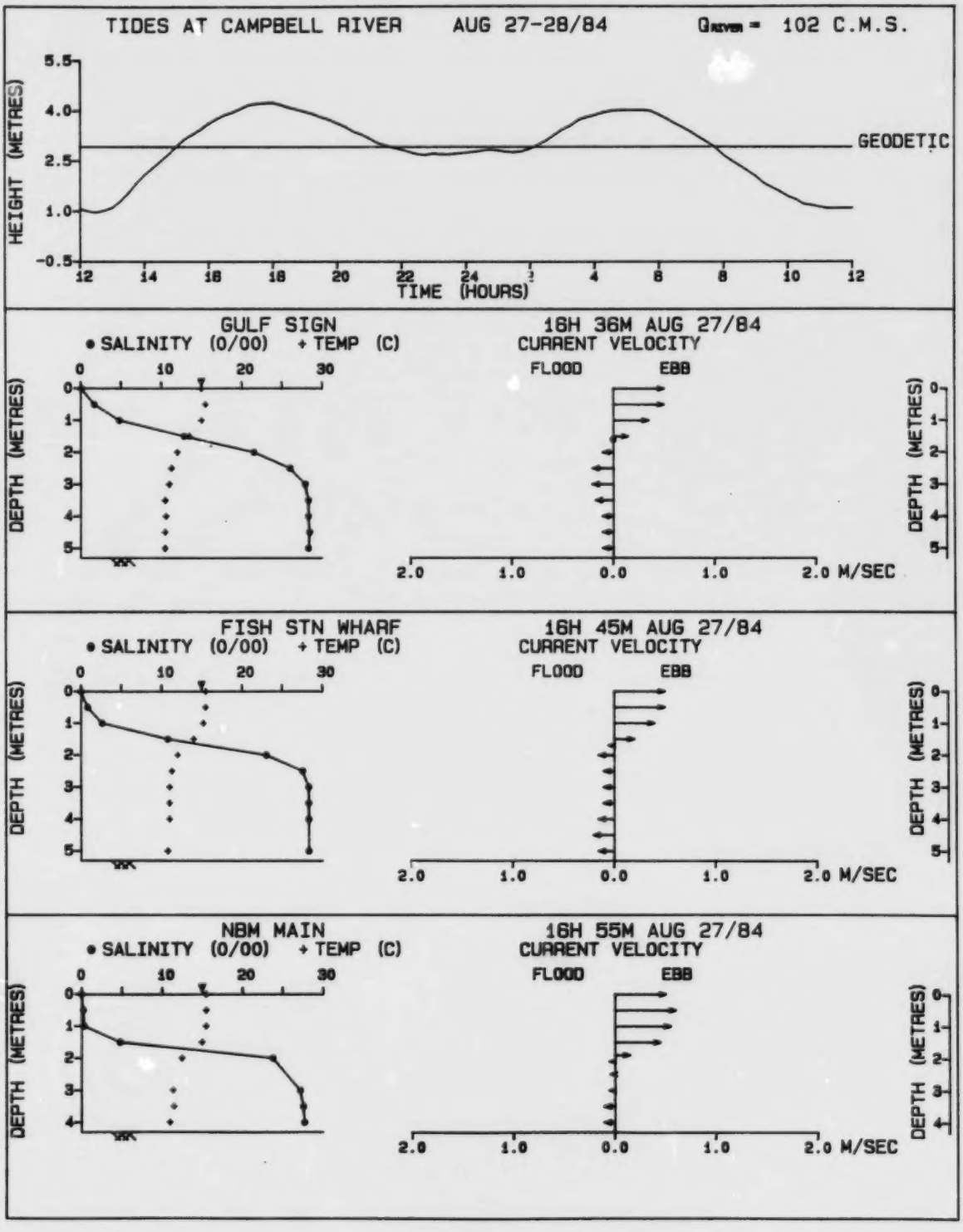
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



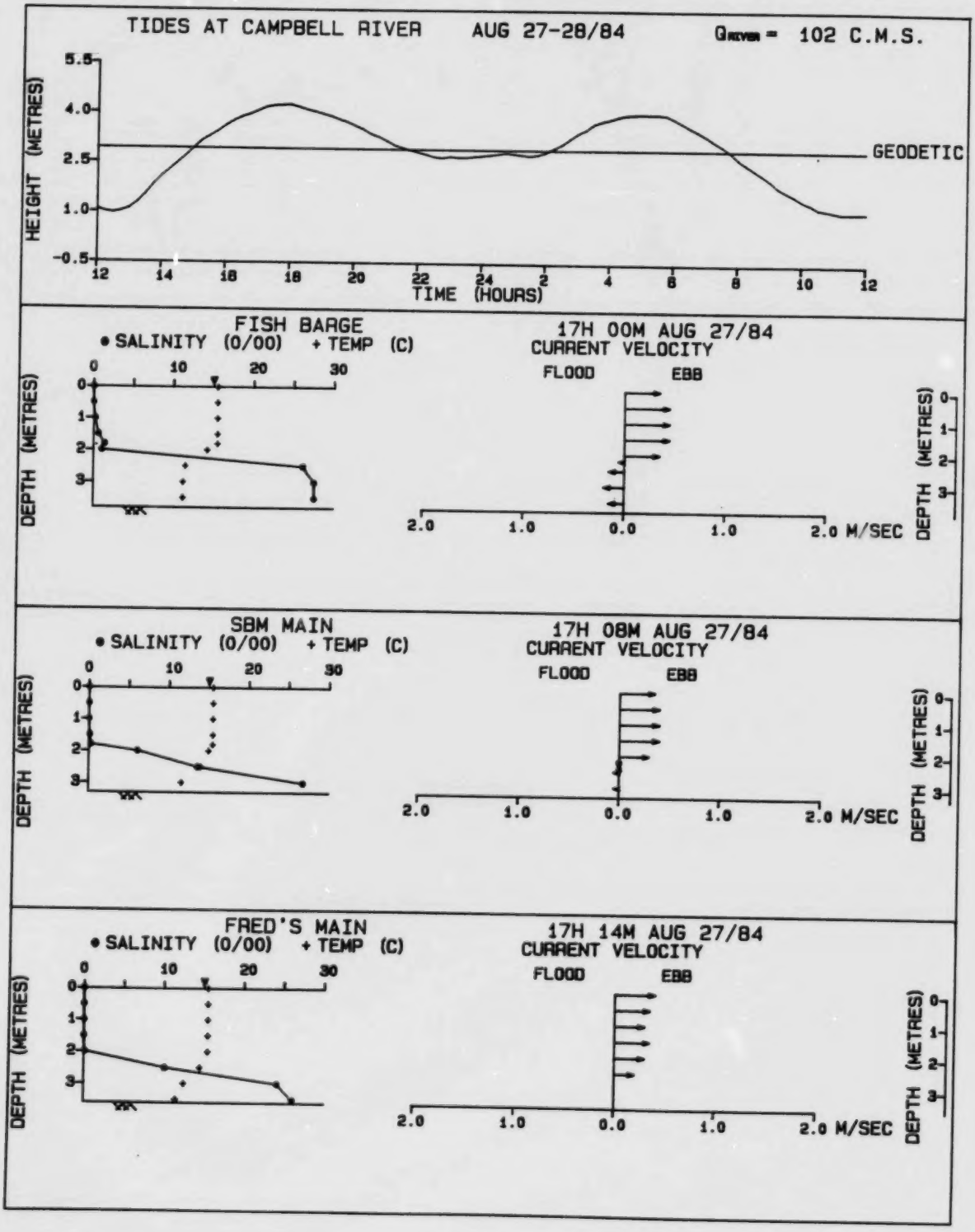
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



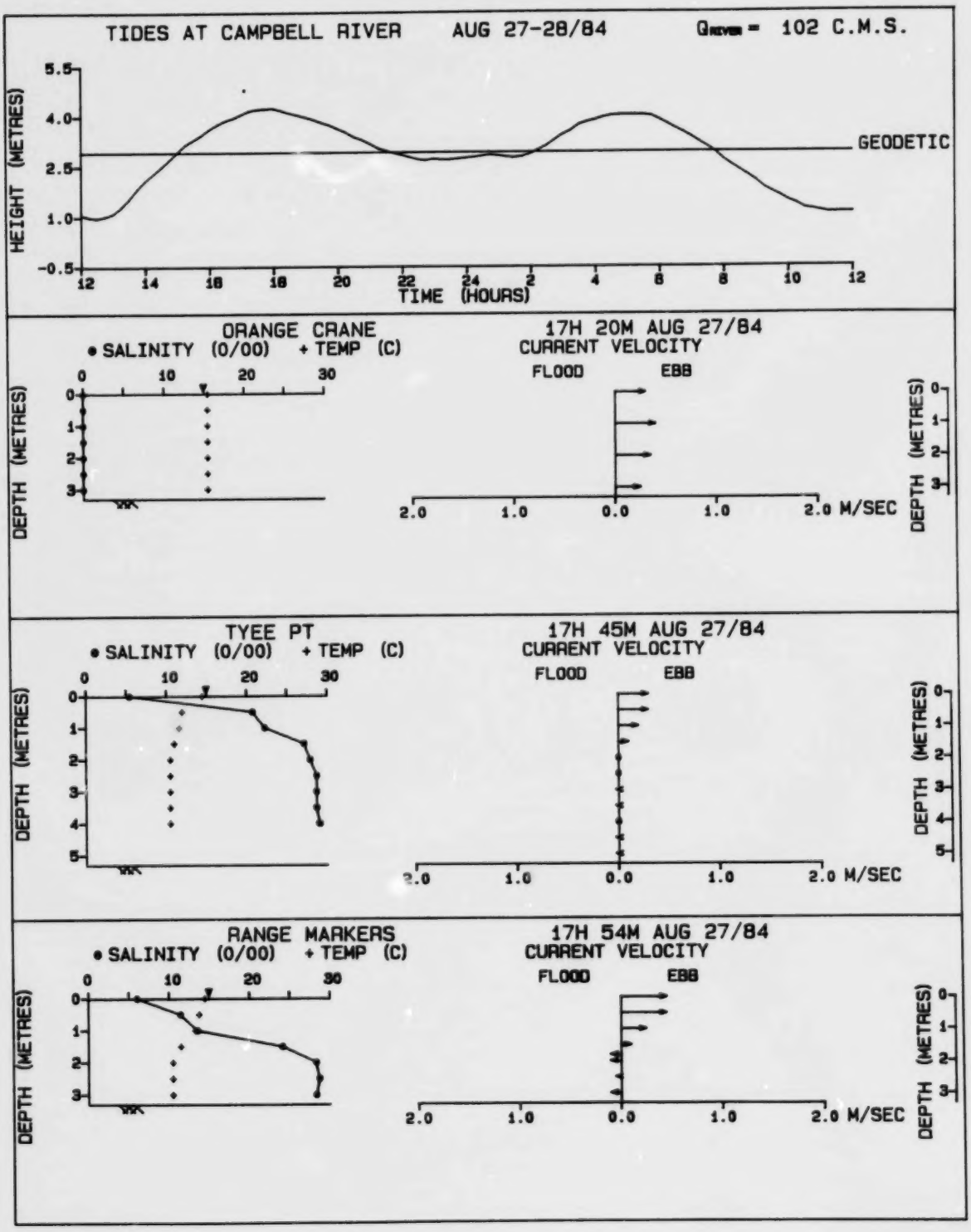
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



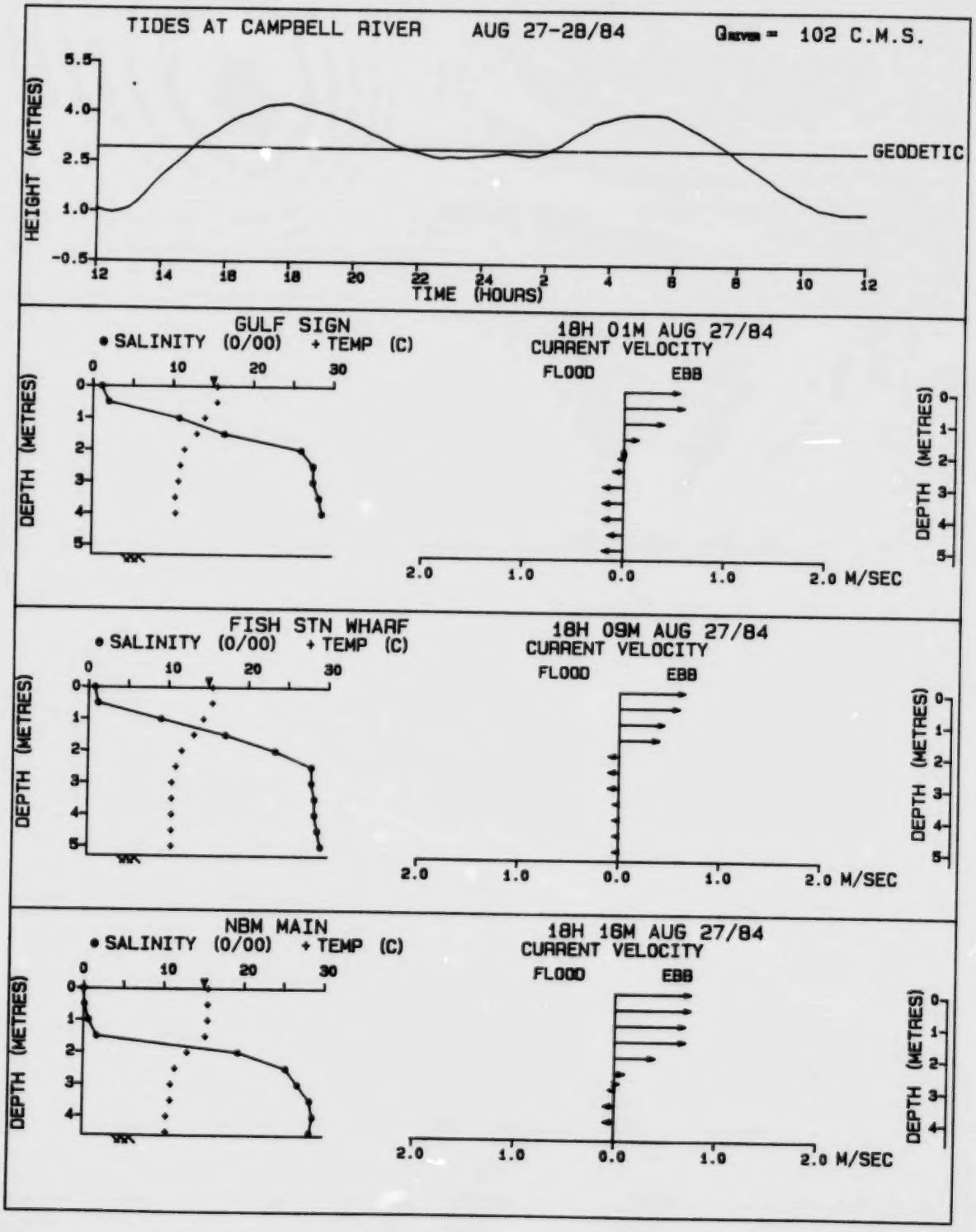
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



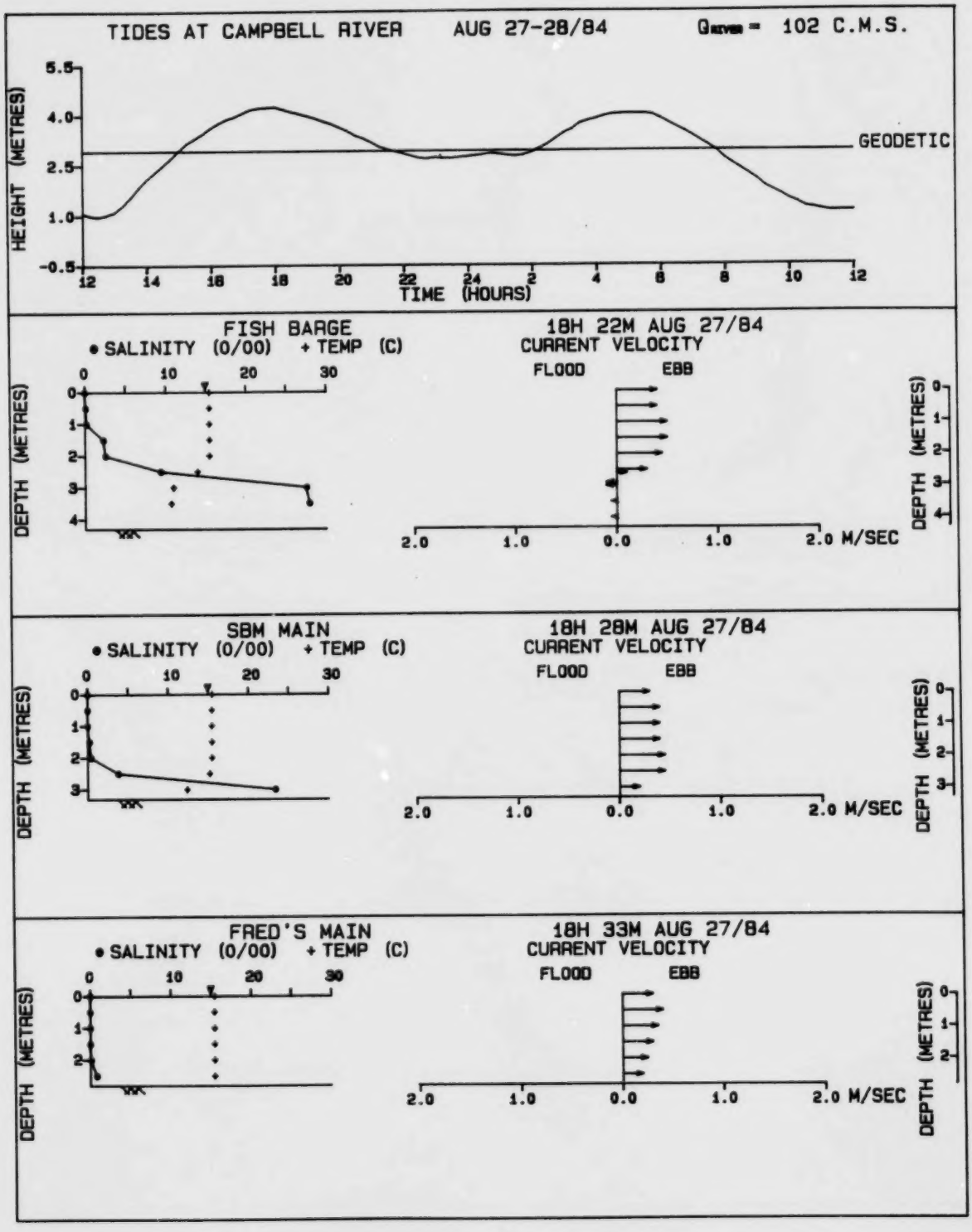
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



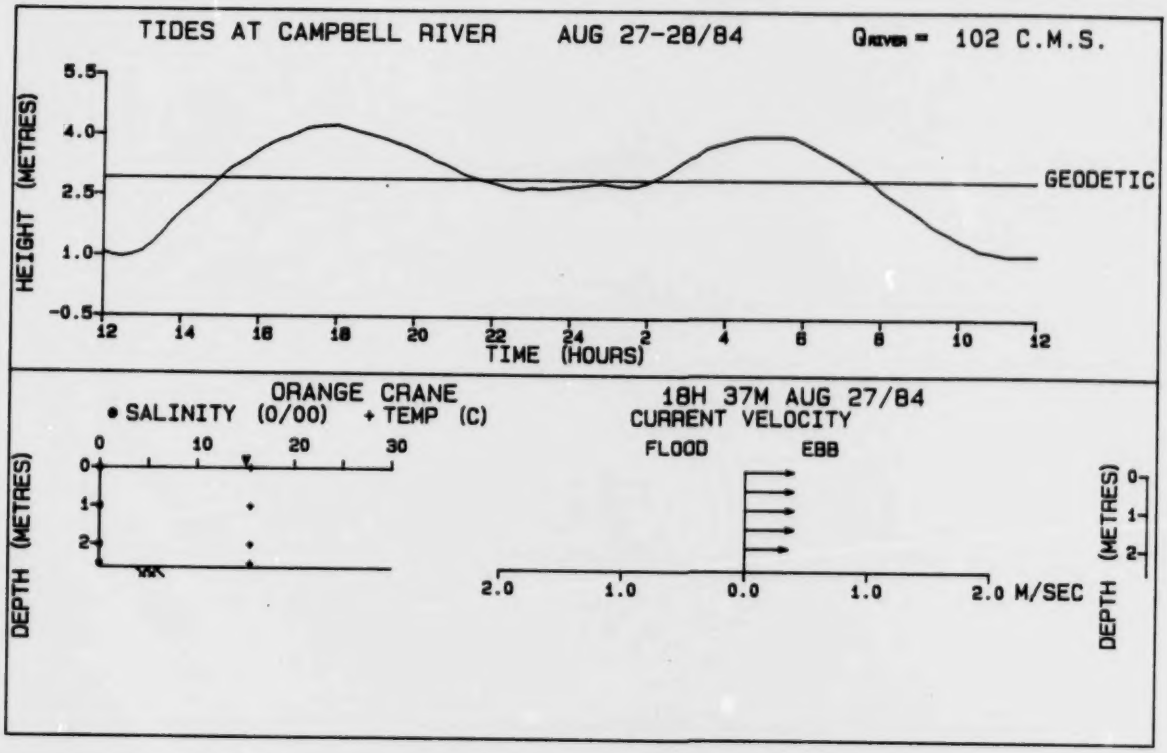
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



AUG 28/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	07H 35M	.0	3.4	14.0	.30	E
		.5	5.4	14.3	.30	E
		1.0	20.1	12.4	.30	E
		2.0	26.0	11.3	.05	E
		3.0	28.3	10.8	.01	E
RANGE MARKERS	07H 46M	.0	.1	15.5	.70	E
		.5	3.5	15.0	.80	E
		1.0	12.2	13.5	.60	E
		2.0	27.6	11.0	.20	E
GULF SIGN	07H 51M	.0	.5	15.0	.80	E
		.5	1.1	15.0	.90	E
		1.0	2.6	14.8	.75	E
		2.0	20.8	12.5	.30	E
		3.0	28.3	10.8	.10	E
FISH STN WHARF	07H 56M	.0	.2	15.0	.80	E
		.5	.2	15.0	.90	E
		1.0	.8	15.0	.85	E
		1.5	1.3	15.0	.80	E
		2.0	18.6	12.5	.40	E
		3.0	28.7	10.5	.10	E
		3.5	29.1	10.5	.10	E
NBM MAIN	08H 02M	.0	.1	15.0	.60	E
		.5	.2	15.0	.65	E
		1.0	.2	15.5	.70	E
		2.0	.5	15.5	.60	E
		2.5	.2	15.2	.40	E
		3.0	12.9	13.0	.40	E
FISH BARGE	08H 09M	.0	.0	15.5	.70	E
		.5	.0	15.5	.75	E
		1.0	.0	15.5	.70	E
		2.0	.1	15.5	.60	E
SBM MAIN	08H 13M	.0	.0	15.4	.80	E
		.5	.0	15.4	.70	E
		1.0	.0	15.4	.70	E
		1.5	.0	15.4	.40	E
		2.0	.0	15.4		

AUG 28/84 RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	08H 23M	.0	2.9	14.5	.60	E
		.5	3.5	14.5	.55	E
		1.0	4.5	14.5	.50	E
		1.5	6.1	14.4	.55	E
		2.0	6.1	14.4	.55	E
		2.5	9.4	13.8	.50	E
		3.0	17.1	12.8	.35	E
		3.5			.35	E
		4.0	26.0	11.5		
RANGE MARKERS	08H 32M	.0	1.7	15.0	.90	E
		.5	4.8	14.5	.90	E
		1.0	10.1	13.5	.60	E
		1.5	13.6	13.4	.50	E
		2.0	23.8	12.5		
GULF SIGN	08H 37M	.0	.2	15.3	.85	E
		.5	.2	15.4	.85	E
		1.0	.9	15.3	.80	E
		1.5	2.6	15.0	.75	E
		2.0	13.6	13.0	.60	E
		2.5	20.1	12.2	.25	E
FISH STN WHARF	08H 43M	.0	.2	15.3	.80	E
		.5	.2	15.3	.80	E
		1.0	.3	15.3	.75	E
		1.5	.8	15.3	.75	E
		2.0	1.2	15.3	.70	E
		2.5	20.8	12.6	.60	E
		3.0	28.3	10.6	.20	E
NBM MAIN	08H 51M	.0	.0	15.5	.80	E
		.5	.0	15.4	.80	E
		1.0	.0	15.4	.80	E
		2.0	.0	15.4	.65	E
		2.5	.0	15.4	.40	E
TYEE PT	09H 02M	.0	1.4	15.0	.80	E
		.5	2.2	15.0	.80	E
		1.0	2.6	15.0	.80	E
		1.5	3.3	14.8	.75	E
		2.0	7.1	14.3	.70	E
		2.5	8.1	14.0	.70	E
		3.0	15.0	13.0	.60	E

AUG 28/84 RIVER DISCHARGE = 102 CU.M/SEC

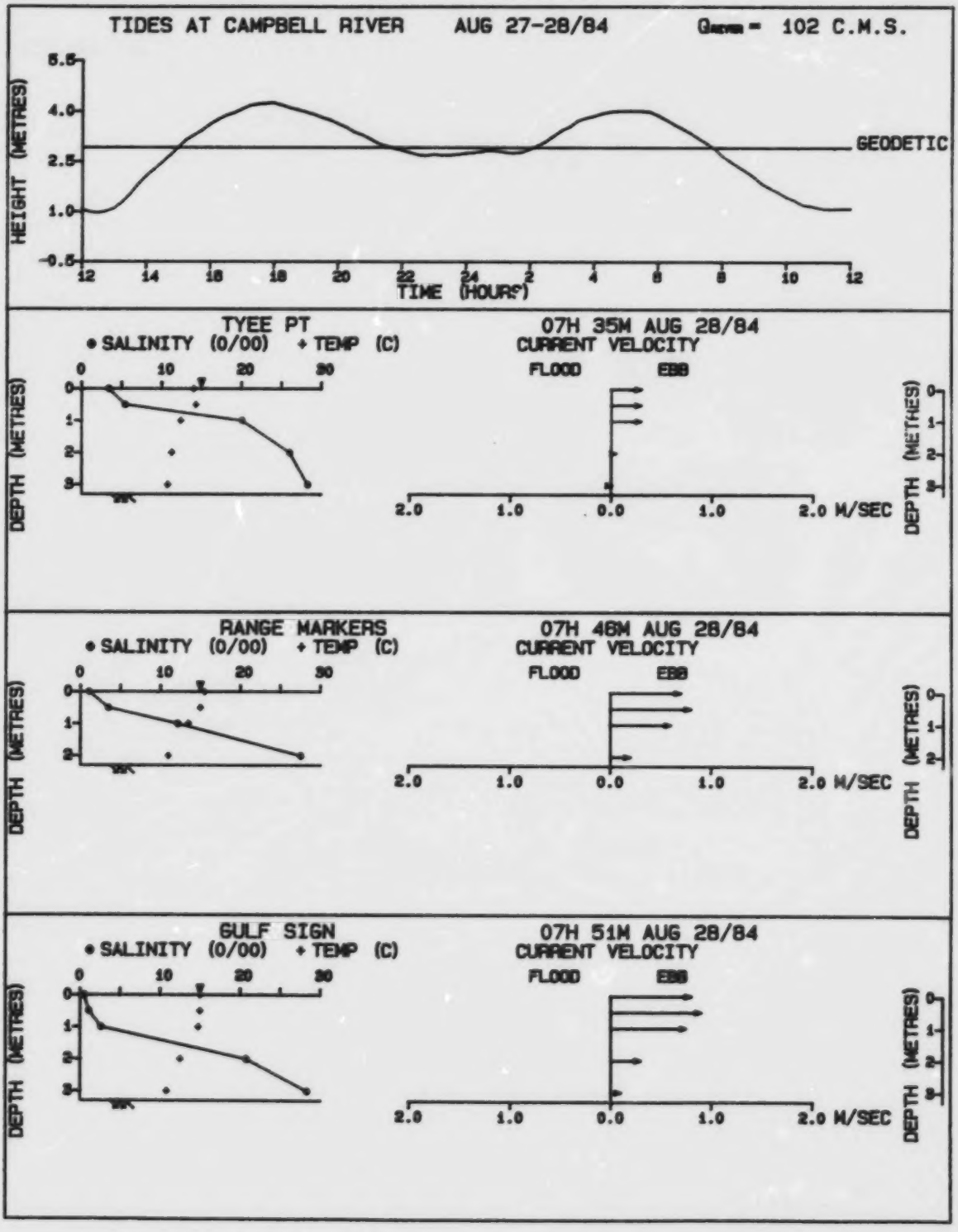
LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	09H 02M	3.5	21.5	11.7		
		4.0	26.0	11.3	.20	E
		5.0	26.8	11.5		
RANGE MARKERS	09H 19M	.0	.1	15.2	.80	E
		.5	.1	15.2	.80	E
		1.0	.1	15.2	.60	E
		1.5	.1	15.2		
GULF SIGN	09H 27M	.0	.3	15.5	.80	E
		.5	.3	15.5	.85	E
		1.0	.6	15.5	.85	E
		1.5	.7	15.5	.80	E
		2.0	.8	15.5	.65	E
		2.5	.8	15.5		
FISH STN WHARF	09H 31M	.0	.1	15.5	.80	E
		.5	.1	15.5	.80	E
		1.0	.3	15.5	.75	E
		1.5	.3	15.5	.80	E
		2.0	.8	15.5	.75	E
		2.5	.9	15.5	.65	E
TYEE PT	09H 46M	.0	1.7	15.0	.65	E
		.5	2.3	15.0	.65	E
		1.0	2.9	15.0	.65	E
		1.5	4.5	15.0	.65	E
		2.0	4.8	14.8	.70	E
		2.5	8.7	13.0	.40	E
		3.0	23.0	12.0	.20	E
		3.5	24.5	11.5	.20	E
		4.0	26.0	11.2	.20	E
		4.5	27.6	10.8	.20	E
RANGE MARKERS	09H 57M	.0	.6	15.2	.80	E
		.5	.6	15.2	.80	E
		1.0	.6	15.2	.80	E
GULF SIGN	10H 03M	.0	.1	15.5	.85	E
		.5	.2	15.2	.85	E
		1.0	.4	15.5	.80	E
		1.5	.4	15.5	.75	E
		2.0	.4	15.5		

AUG 28/84

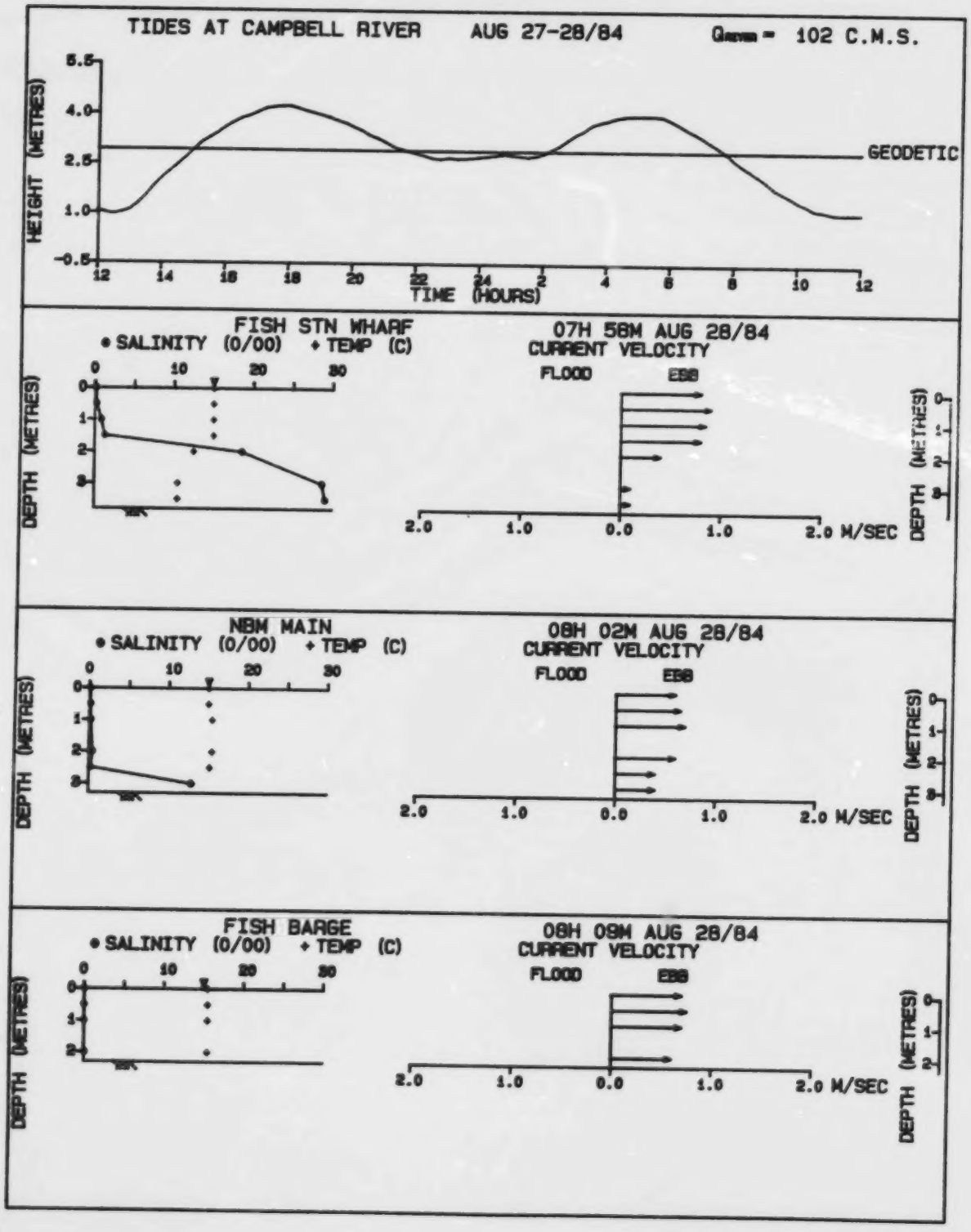
RIVER DISCHARGE = 102 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	10H 07M	.0	.0	15.5	.80	E
		.5	.0	15.5	.80	E
		1.0	.0	15.5	.80	E
		1.5	.0	15.5		
		2.0	.0	15.5	.75	E
		2.5	.0	15.5		
TYEE PT	10H 18M	.0	.2	15.2	.80	E
		.5	.2	15.2		
		1.0	.3	15.4	.80	E
		2.0	.8	15.4	.75	E
		3.0	1.7	15.2		
		4.0	22.3	12.0		
RANGE MARKERS	10H 28M	.0	.5	15.3	.95	E
		.5	.5	15.3	.90	E
		1.0	.5	15.3	.70	E
GULF SIGN	10H 34M	.0	.1	15.5	1.00	E
		.5	.1	15.5	1.00	E
		1.0	.2	15.5	1.00	E
		2.0	.2	15.5	.70	E
TYEE PT	10H 43M	.0	.1	15.5	.50	E
		.5	.1	15.5		
		1.0	.2	15.5	.60	E
		2.0	.8	15.5	.60	E
		3.0	1.7	15.2	.50	E
		3.5			.20	E
		4.0	21.5	12.5		
RANGE MARKERS	10H 51M	.0	.3	15.5	.80	E
		.5	.4	15.5	.75	E
GULF SIGN	10H 56M	.0	.0	15.5	.70	E
		.5	.0	15.5		
		1.0	.0	15.5	.70	E
		2.0	.0	15.5	.55	E

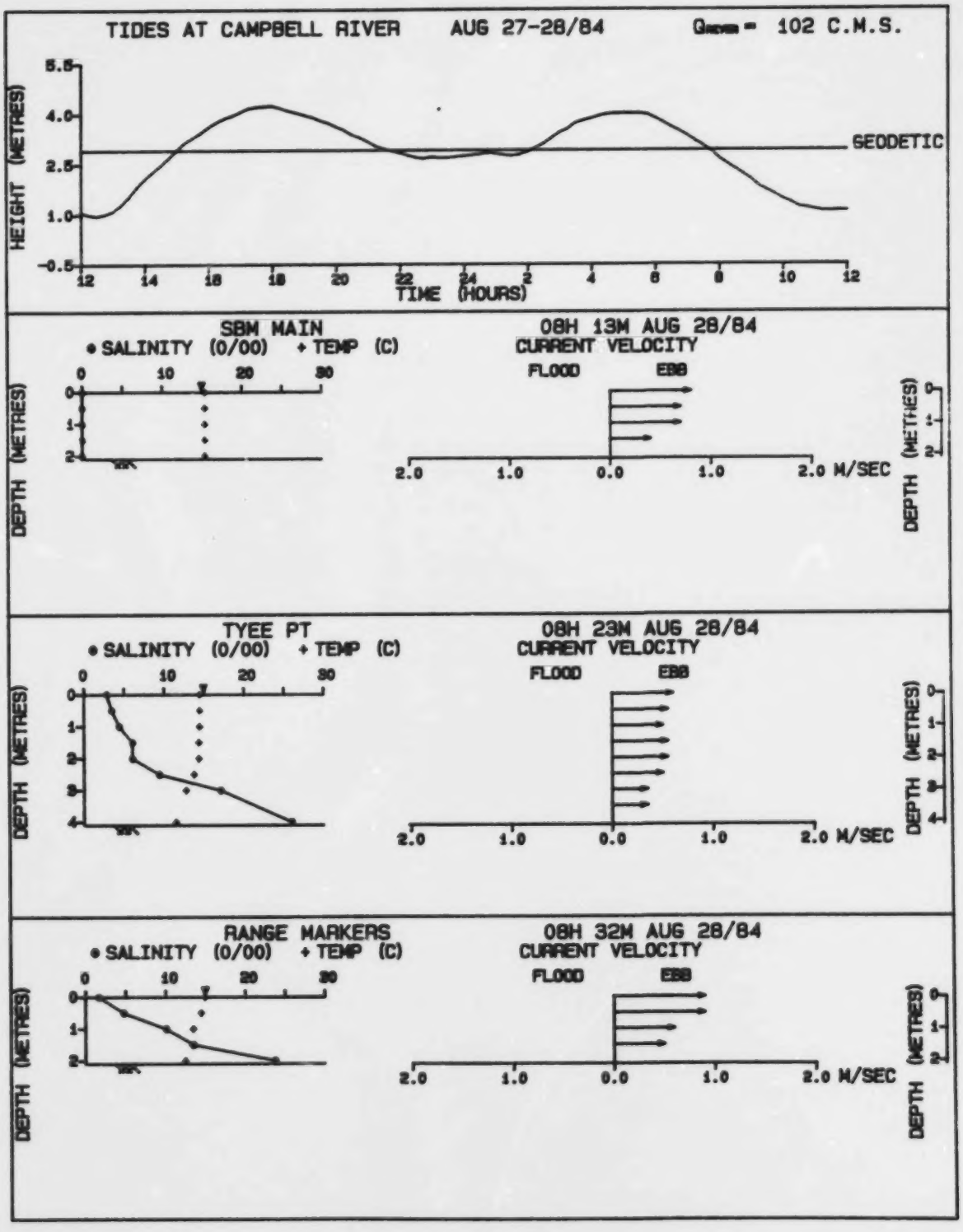
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



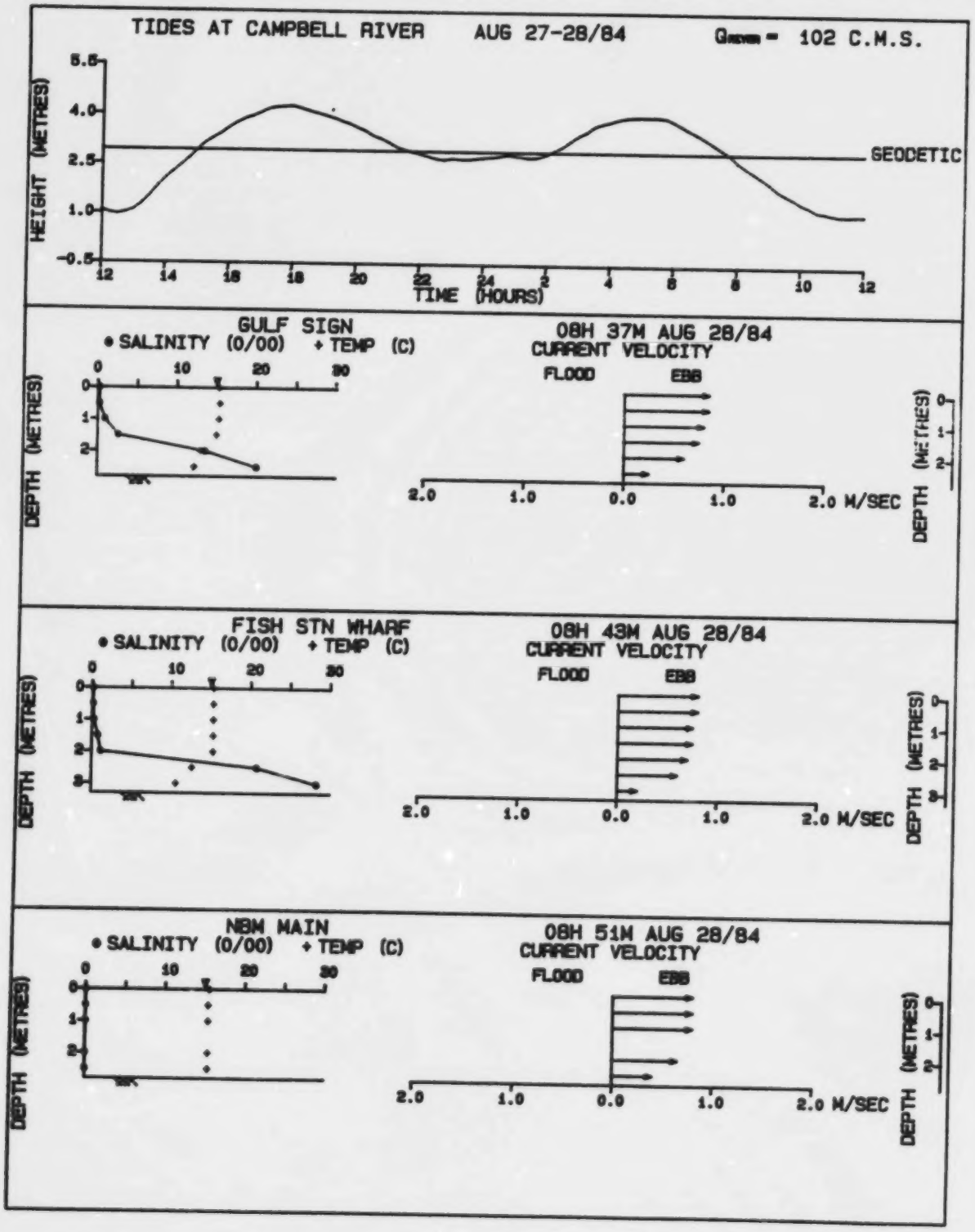
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



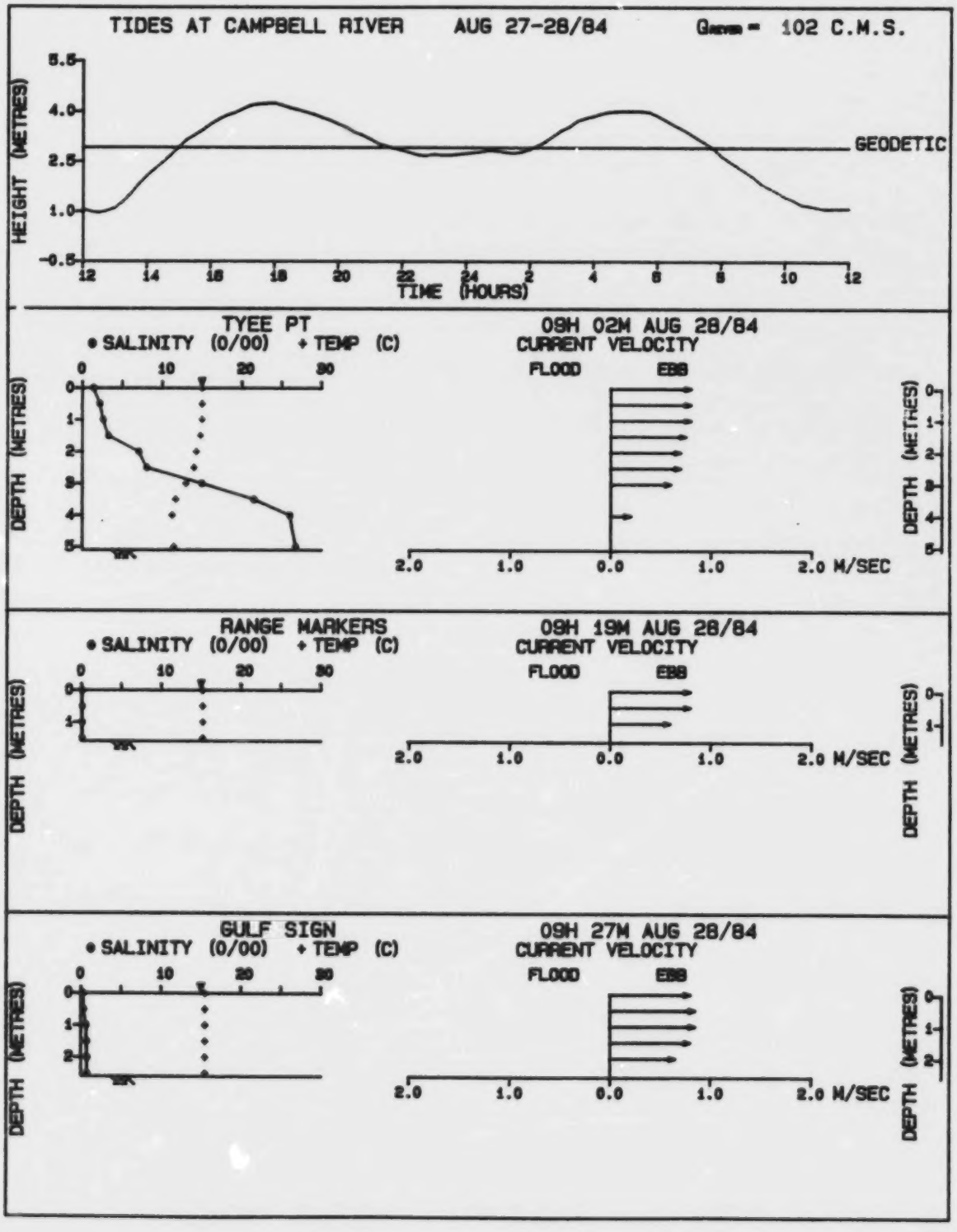
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



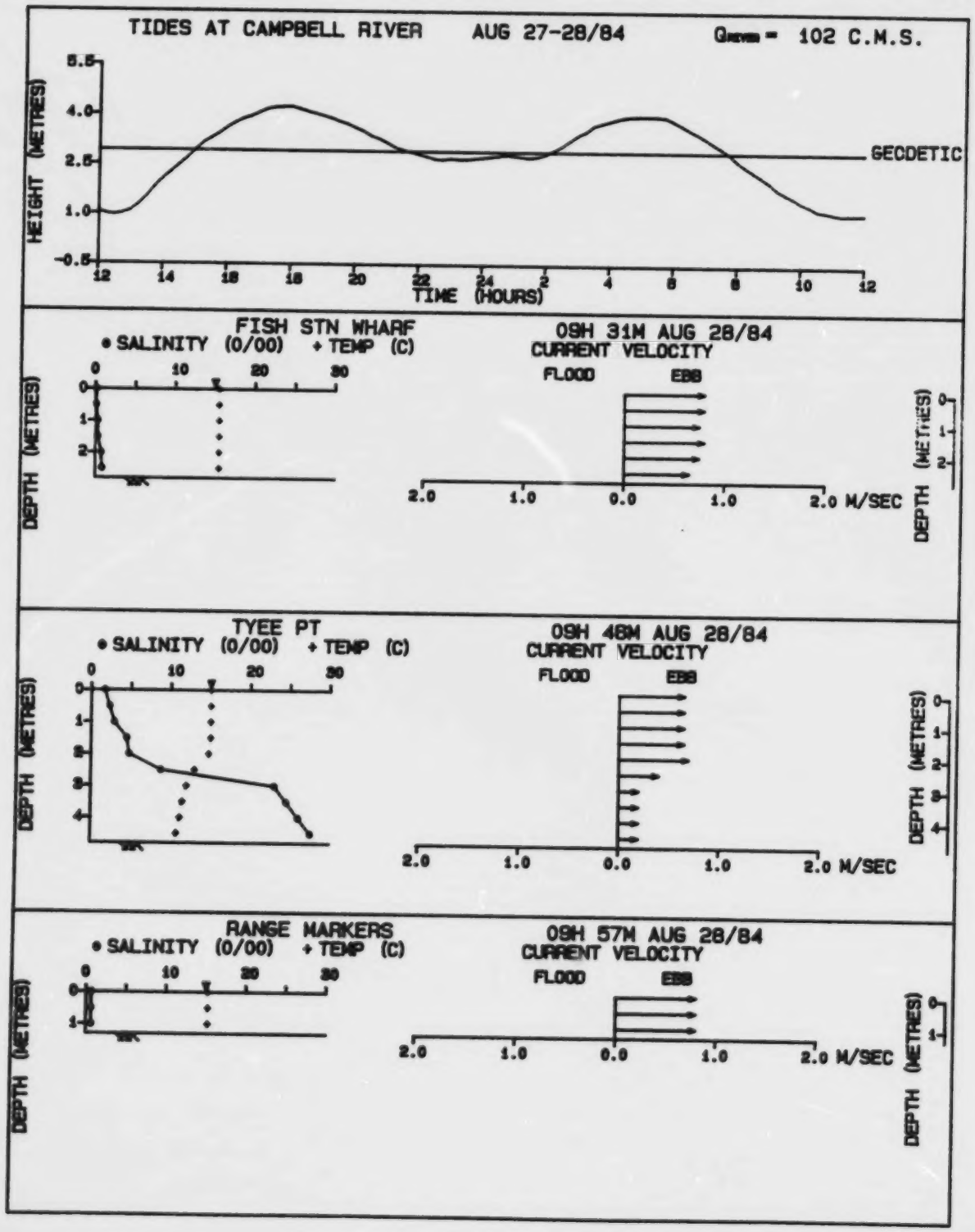
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



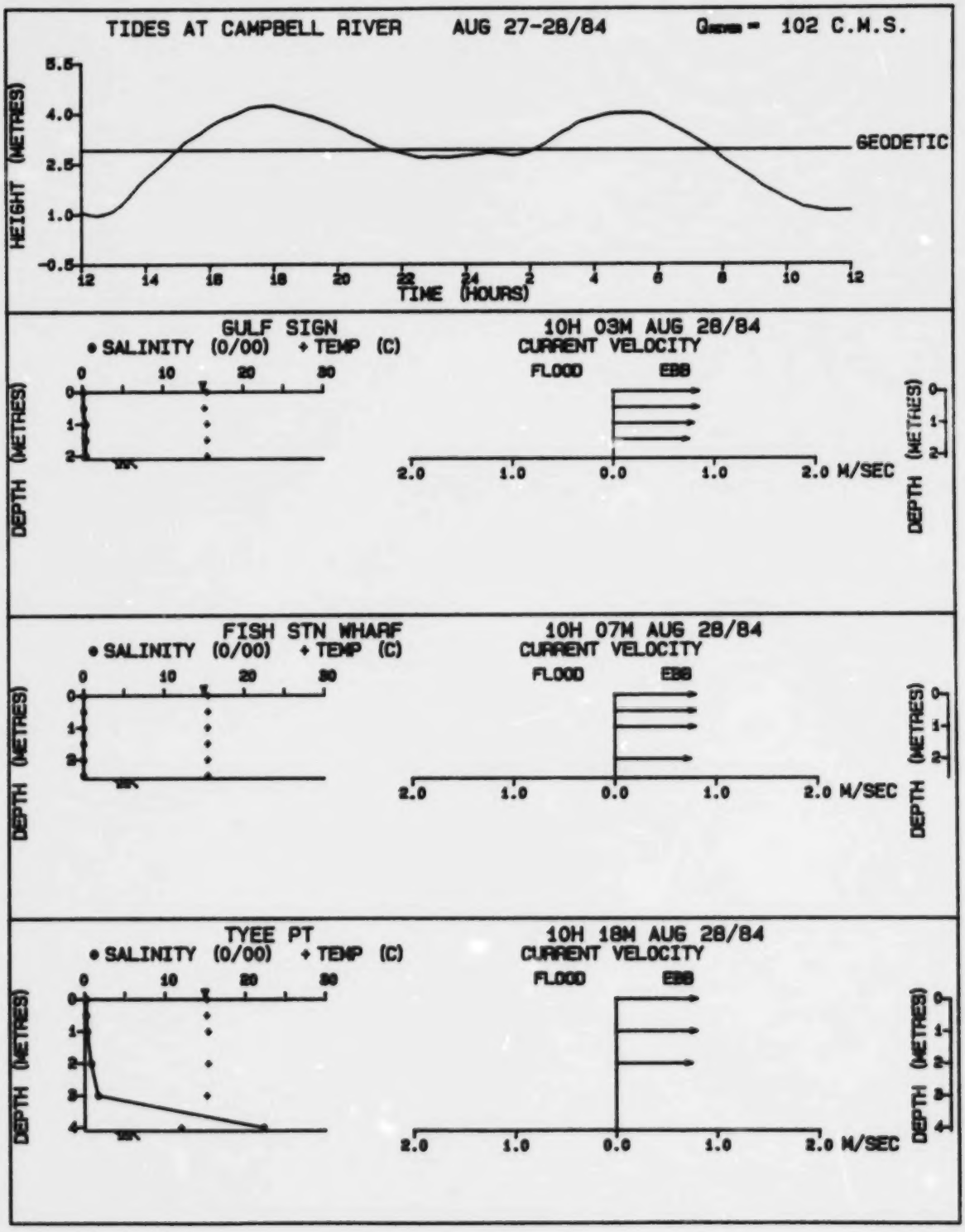
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



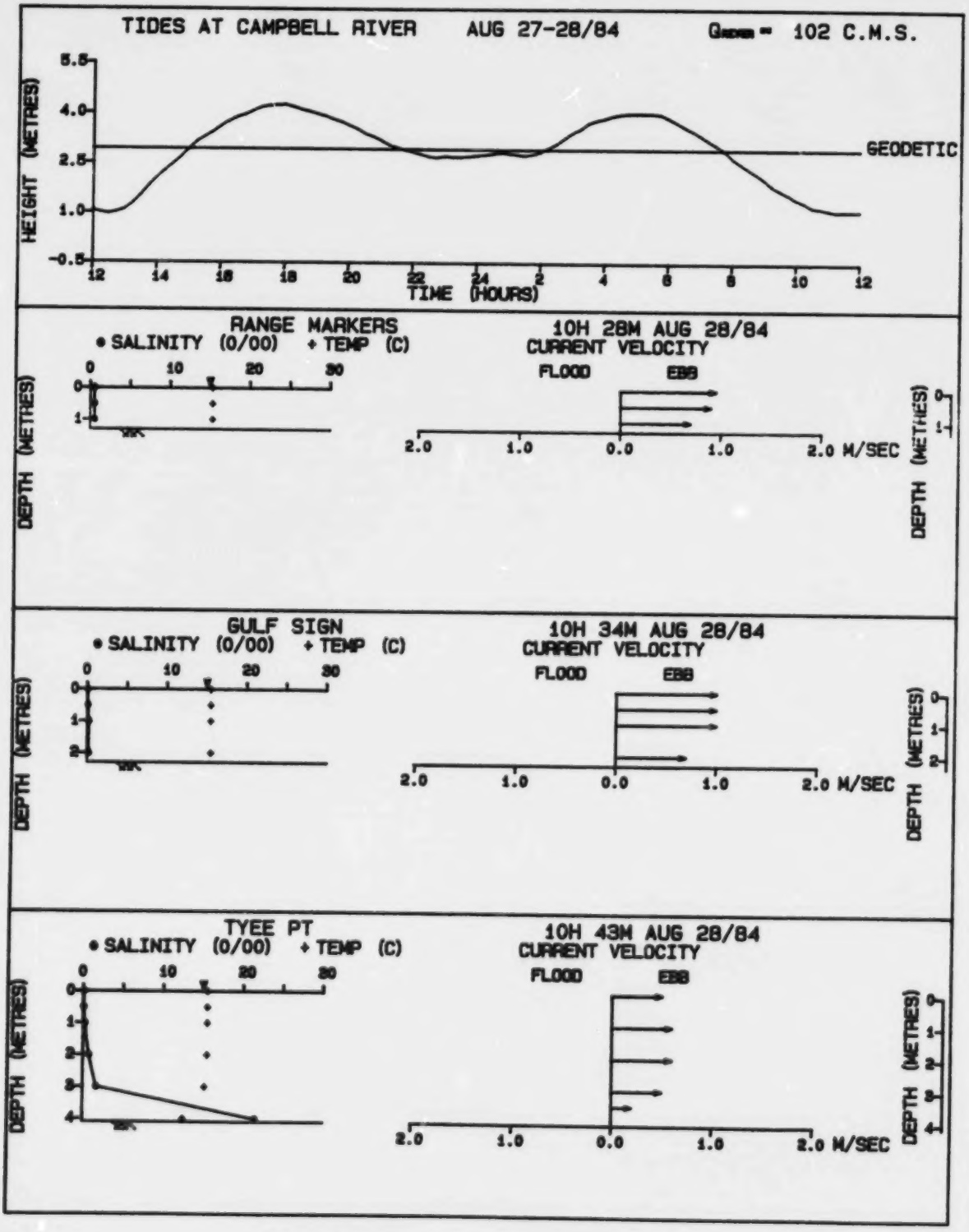
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



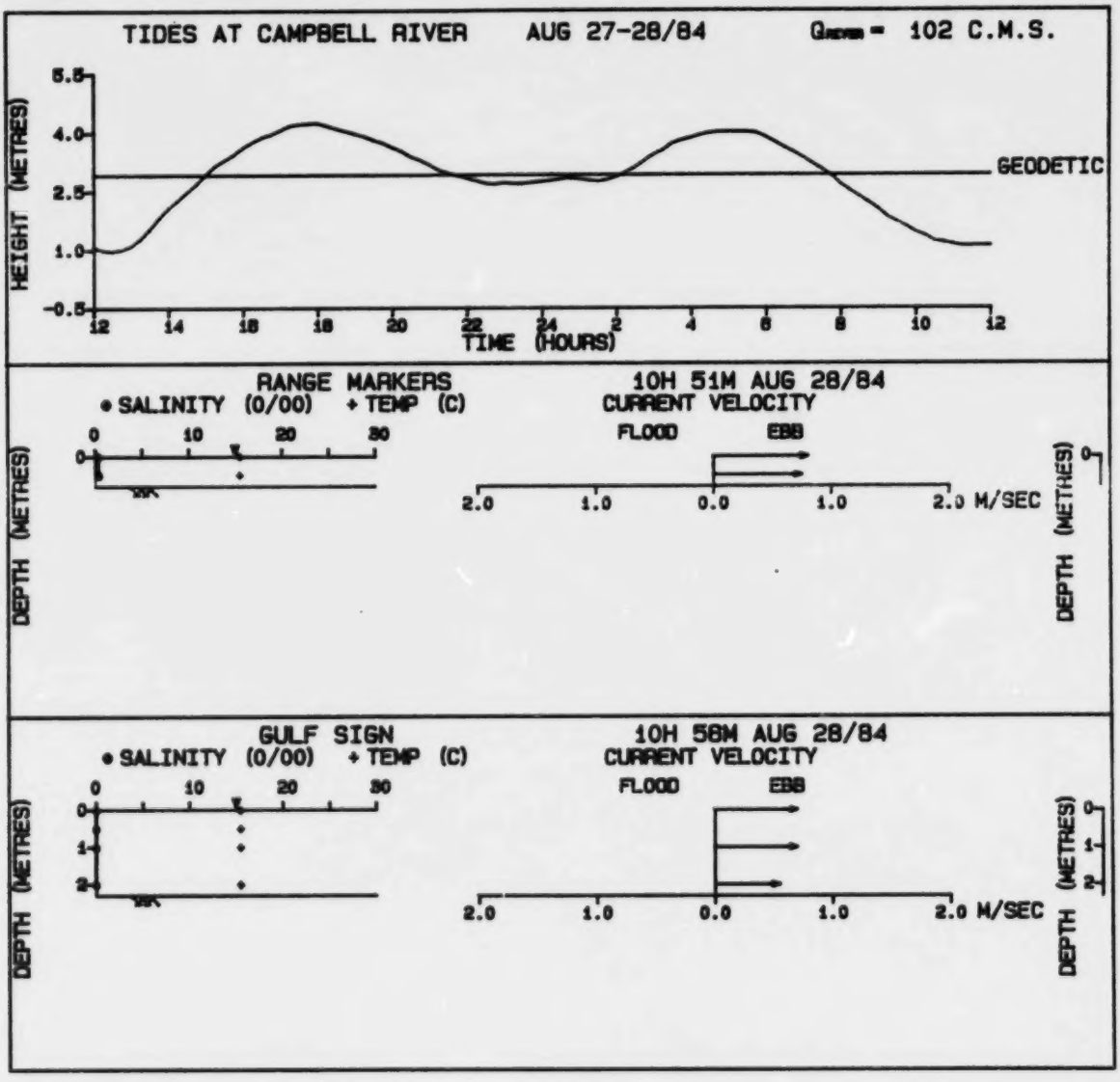
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	13H 35M	.0	.0	15.5	.20	E
		.5	2.3	15.0	.10	E
		1.0	20.1	13.2	.10	F
		2.0	27.4	11.3	.30	F
		3.0	28.0	11.2	.40	F
		3.5			.30	F
		4.0	28.3	11.0		
RANGE MARKERS	13H 39M	.0	.1	15.0	.10	E
		.5	.2	15.0	.10	E
		1.0	.3	15.0	.10	E
		2.0	22.9	12.5	.20	F
		2.5	25.0	12.0		
GULF SIGN	13H 44M	.0	.0	14.8	.20	E
		1.0	.0	14.8	.30	E
		2.0	.0	14.8	.20	E
		3.0	.0	14.8	.15	E
FISH STN WHARF	13H 47M	.0	.0		.30	E
		1.0			.30	E
		2.0			.20	E
		3.0			.20	E
NBM MAIN	13H 48M	.0			.50	E
		1.0			.40	E
		2.0			.30	E
FISH BARGE	13H 50M	.0			.40	E
		1.0			.50	E
		1.5			.40	E
SBM MAIN	13H 52M	.0			.40	E
		1.0			.55	E
		1.5			.40	E
FRED'S MAIN	13H 54M	.0			.50	E
		1.0			.60	E
		1.5			.50	E

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ORANGE CRANE	13H 56M	.0			.70	E
		.5			.60	E
		1.0			.50	E
RAVEN'S LOG SORT	14H 01M	.0	.1	14.8	.00	
		1.0	.8	14.8		
SBS (I2)	14H 05M	.0	.0	14.9	.30	E
		.5	.0	14.9		
		1.0	.0	14.9	.40	E
NBM	14H 08M	.0	.3	15.0	.00	
		1.0	.4	15.1	.00	
		2.0	.9	15.1	.00	
		2.5	8.7	15.[illegible]	.00	
TUG TURN NBM	14H 12M	.0	.0	14.8	.00	
		1.0	.0	15.0		
		2.0	.1	15.0		
		3.0	27.8	11.5		
		4.0	28.6	11.0		
NBS	14H 16M	.0	.3	14.8	.00	
		1.0	.4	15.0		
		2.0	3.2	14.7		
LOG BASIN	14H 22M	.0	1.1	14.8	.00	
		1.0	7.2	14.0		
		2.0	14.9	13.0		
		3.0	25.2	11.6		
		4.0	27.4	11.2		
		5.0	28.3	10.8		
		6.0	28.6	10.7		
GRASS	14H 28M	.0	.1	14.6	.00	
		1.0	.6	14.8		
		1.3	1.3	14.8		
MOTHER RAMP	14H 34M	.0	.3	14.9	.00	
		1.0	1.2	14.8	.05	F
		2.0	28.0	11.4	.20	F

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
MOTHER RAMP	14H 34M	3.0	28.2	11.0	.10	F
SPIT FLOAT (A1)	14H 41M	.0	1.5	14.6	.10	E
		1.0	17.6	13.4	.05	F
		2.0	27.9	11.3	.00	
		3.0	28.3	11.0	.00	
		4.0	28.6	10.8	.00	
TYEE PT	14H 45M	.0	6.0	14.3	.00	
		.5			.10	F
		1.0	25.2	11.5	.30	F
		1.5			.40	F
		2.0	29.0	11.0	.40	F
		2.5			.10	F
		3.0	29.3	10.6		
RANGE MARKERS	14H 50M	.0	.5	14.7	.20	E
		.5	.6	14.8	.10	E
		1.0	2.0	13.5	.05	E
		1.5	27.8	11.6	.10	F
		2.0	28.6	11.0	.20	F
		2.5	29.0	11.0	.20	F
		3.0	29.0	10.9	.05	F
GULF SIGN	15H 00M	.0	.1	14.8	.30	E
		.5	.1	14.8	.20	E
		1.0	.2	14.8	.20	E
		1.5	2.6	14.6	.05	E
		2.0	10.4	14.0	.02	F
		2.5			.10	F
		3.0	26.3	11.7	.20	F
		3.5	27.7	11.4	.20	F
		4.0			.15	F
FISH STN WHARF	15H 05M	.0	.1	14.7	.25	E
		.5	.2	14.8	.30	E
		1.0	.2	14.8	.35	E
		1.5	4.8	14.4	.20	E
		2.0	16.3	13.1	.10	E
		2.2			.00	
		2.5	24.3	12.0	.02	F
		3.0	26.0	11.7	.10	F
		3.5	26.5	11.5	.20	F
		4.0	27.4	11.4	.10	F

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	15H 05M	4.5	27.8	11.3		
NBM MAIN	15H 12M	.0	.0	14.9	.30	E
		.5	.1	14.9	.40	E
		1.0	.1	14.9	.40	E
		1.5	.1	14.9	.40	E
		2.0	5.4	14.2	.20	E
		2.2			.00	
		2.5	25.2	12.0	.05	F
		3.0	26.1	11.7	.10	F
		3.5	26.4	11.6	.05	F
FISH BARGE	15H 17M	.0	.1	14.8	.20	E
		.5	.1	14.8	.25	E
		1.0	.1	14.8	.30	E
		1.5	.1	14.8	.30	E
		2.0	.1	14.8	.25	E
		2.5	23.7	12.0	.05	F
		2.8	25.0	11.8		
SBM MAIN	15H 24M	.0	.0	14.8	.30	E
		.5	.0	14.8	.40	E
		1.0	.0	14.8	.35	E
		1.5	.0	15.0	.25	E
		2.0	.0	15.0	.20	E
		2.5	.0	15.0		
FRED'S MAIN	15H 28M	.0			.40	E
		1.0			.30	E
		2.0			.25	E
		2.5			.20	E
TYEE PT	15H 34M	.0	12.9	13.2	.10	E
		.5	22.9	11.8	.05	F
		1.0	29.0	11.2	.20	F
		1.5	29.3	10.5	.30	F
		2.0	29.7	10.5	.30	F
		2.5	29.7	10.4	.20	F
		3.0	29.7	10.3	.20	F
RANGE MARKERS	15H 38M	.0	.9	14.3	.10	E
		.5	3.5	14.3	.10	E
		1.0	12.8	13.8	.00	

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
RANGE MARKERS	15H 38M	1.5	27.9	11.4	.10	F
		2.0	28.6	11.0	.10	F
		2.5	29.0	10.8	.05	F
		3.0	29.1	10.8	.05	F
		3.5	29.1	10.8	.00	
		4.0	29.3	10.7		
GULF SIGN	15H 45M	.0	.1	14.7	.30	E
		.5	1.1	14.6	.50	E
		1.0	3.8	14.4	.40	E
		1.5	15.6	13.0	.20	E
		2.0	27.0	11.4	.05	F
		2.5	28.6	11.0	.10	F
		3.0	28.6	11.0	.10	F
		3.5	28.6	11.0	.20	F
		4.0			.10	F
FISH STN WHARF	15H 50M	.0	.3	14.5	.50	E
		.5	.3	14.7		
		1.0	.7	14.7	.45	E
		2.0	21.8	12.0	.10	F
		3.0	28.0	11.2	.20	F
		4.0	29.0	10.8	.10	F
		5.0	29.0	10.8		
NBM MAIN	15H 54M	.0	.0	14.6	.40	E
		.5	.1	14.6	.40	E
		1.0	.1	14.7	.50	E
		1.5	1.4	14.7	.40	E
		2.0	21.4	13.0	.00	
		2.5	26.3	11.6	.10	F
		3.0	27.6	11.3	.20	F
		3.5	28.0	11.1		
		4.0	28.2	11.1	.15	F
FISH BARGE	15H 58M	.0	.0	14.5	.30	E
		.5	.1	14.8	.30	E
		1.0	.1	14.8	.40	E
		1.5			.30	E
		2.0	.4	14.5	.10	E
		2.5			.15	F
		3.0	26.8	11.5	.10	F

SEP 10/84 RIVER DISCHARGE = 00 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SBM MAIN	16H 02M	.0	.1	14.9	.30	E
		.5	.1	14.9	.25	E
		1.0	.1	14.9	.30	E
		1.5	.1	14.9	.30	E
		2.0	.6	14.9	.20	E
		2.5	8.6	13.8	.10	F
		3.0	22.2	12.4	.10	F
FRED'S MAIN	16H 10M	.0	.0	15.0	.30	E
		.5	.0	14.9	.30	E
		1.0	.0	14.9	.35	E
		1.5	.0	14.9	.30	E
		2.0	.4	14.9	.20	E
		2.5	5.4	14.3	.05	F
		3.0	23.3	12.5	.20	F
TOP TAG MAIN	16H 14M	.0	.0	14.8	.30	E
		.5	.0	14.8	.30	E
		1.0	.0	14.9	.30	E
		1.5	.0	14.9	.30	E
		2.0	.0	15.0	.25	E
		2.5	.0	15.0		
SBS (I2)	16H 23M	.0	.4	15.0	.00	
		.5	.4	15.0	.00	
		1.0	.8	15.0	.00	
		1.5	1.9	14.8	.00	
		2.0	7.7	14.2		
		2.5	9.4	13.7		
SBS (I2) NORTH	16H 26M	.0	.5	15.0	.30	F
		1.0	.5	15.0	.30	F
		1.5	2.0	14.9	.20	F
		2.0	6.0	14.2		
RAVEN'S LOG SORT	16H 30M	.0	.0	15.0	.00	
		.5	.0	15.0		
		1.0	.0	15.0		
		2.0	.4	15.0		
ISL#3 PULLEY	16H 37M	.0	2.6	14.5	.20	E
		.5	4.4	14.3	.20	E
		1.0	7.4	14.0	.20	E

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ISL#3 PULLEY	16H 37M	2.0	28.2	10.9	.05	F
		3.0	29.0	10.6	.05	F
ISL#3 (B1)	16H 41M	.0	3.0	14.2	.20	E
		.5	3.7	14.1	.20	E
		1.0	7.4	13.8	.10	E
		1.5			.10	F
		2.0	29.6	10.6	.15	F
		2.5			.10	F
		3.0	29.7	10.4		
ISL#1&2 CHAN	16H 46M	.0	2.7	14.6	.10	E
		.5	4.8	14.5	.10	E
		1.0	11.1	13.9	.10	E
		2.0	19.2	12.6	.02	E
LOG BASIN	16H 50M	.0	.4	14.5	.00	
		.5	3.9	14.4		
		1.0	9.4	14.0		
		1.5	14.8	13.2		
		2.0	20.0	12.2		
		3.0	25.0	11.5		
		4.0	27.3	11.0		
		5.0	27.6	11.0		
		6.0	28.6	10.8		
		7.0	29.0	10.8		
GRASS	16H 56M	.0	1.9	14.5		
		.5	3.6	14.5		
		1.0	14.0	13.5		
		2.0	22.3	12.0		
		2.5	25.9	11.5	.10	F
MOTHER RAMP	17H 03M	.0	3.4	14.3	.00	
		.5	4.1	14.2	.00	
		1.0	7.4	14.0	.00	
		2.0	23.9	11.5	.00	
		3.0	28.5	10.8	.10	F
		4.0	29.5	10.5	.00	
TYEE PT	17H 10M	.0	20.7	12.0	.40	E
		.5	23.3	11.5	.20	E
		1.0	24.0	11.3	.05	F

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	17H 10M	1.5			.10	F
		2.0	26.7	11.2	.10	F
		3.0	29.3	10.8	.10	F
		4.0	29.3	10.4	.10	F
		5.0	29.7	10.2		
RANGE MARKERS	17H 16M	.0	5.4	14.0	.40	E
		.5	10.9	13.0	.40	E
		1.0	16.3	12.8	.20	E
		1.5			.05	F
		2.0	29.3	10.6	.00	
		2.5			.10	F
		3.0	29.7	10.6	.05	F
		3.5			.05	F
		4.0	29.7	10.4	.05	F
GULF SIGN	17H 25M	.0	.1	14.7	.50	E
		.5	1.7	14.6	.50	E
		1.0	12.8	13.1	.40	E
		1.5			.10	E
		2.0	27.6	11.5	.15	F
		2.5			.20	F
		3.0	29.0	10.7	.20	F
		3.5			.20	F
		4.0	29.3	10.6	.20	F
		4.5	29.7	10.5	.15	F
FISH STN WHARF	16H 29M	.0	.1	14.5	.70	E
		.5	1.5	14.5	.55	E
		1.0	8.4	13.8	.45	E
		1.5	18.5	12.5	.05	E
		2.0	25.9	11.5	.05	F
		2.5	28.8	11.1	.10	F
		3.0	29.0	10.8	.20	F
		3.5	29.2	10.6	.10	F
		4.0	29.2	10.5	.10	F
		4.5	29.4	10.5	.10	F
		5.0	29.6	10.5	.10	F
NBM MAIN	17H 36M	.0	.1	14.9	.50	E
		.5	.4	14.9	.50	E
		1.0	1.1	14.9	.50	E
		1.5	10.4	13.7	.45	E
		2.0	26.3	12.0	.05	F
		2.5	28.4	11.2	.05	F

SEP 10/84

RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
NBM MAIN	17H 36M	3.0	28.8	11.0	.05	F
		3.5	29.0	11.0	.10	F
		4.0	29.3	10.8	.10	F
		4.5	29.4	10.8		
FISH BARGE	17H 42M	.0	.1	14.6	.50	E
		.5	.1	14.9	.50	E
		1.0	.4	14.9	.50	E
		1.5	1.1	14.9	.50	E
		2.0	10.9	14.0	.35	E
		2.5	28.2	11.3	.05	F
		3.0	29.0	11.1	.10	F
		3.5	29.1	10.8	.10	F
SBM MAIN	17H 46M	.0	.1	14.9	.50	E
		.5	.1	15.0	.50	E
		1.0	.4	15.0	.50	E
		1.5	1.4	14.8	.50	E
		2.0	3.8	14.7	.40	E
		2.5	20.0	13.0	.10	E
		3.0	28.2	11.5	.05	F
FRED'S MAIN	17H 50M	.0	.0	14.8	.50	E
		.5	.1	15.0	.45	E
		1.0	.1	15.0	.40	E
		1.5	.6	15.0	.50	E
		2.0	4.8	14.5	.40	E
		2.5	25.3	12.5	.05	E
		3.0	27.3	11.5	.05	F
TOP TAG MAIN	17H 55M	.0	.1	14.9	.40	E
		.5	.1	14.9	.40	E
		1.0	.2	14.9	.40	E
		1.5	.8	14.8	.40	E
		2.0	3.9	14.5	.40	E
		2.5	6.4	14.2	.20	E
ORANGE CRANE	18H 02M	.0	.1	14.9	.30	E
		.5			.30	E
		1.0	.1	14.9	.40	E
		1.5			.40	E
		2.0	1.9	14.8	.40	E
		2.5	3.1	14.5	.40	E

SEP 10/84 RIVER DISCHARGE = 90 CU.M/SEC

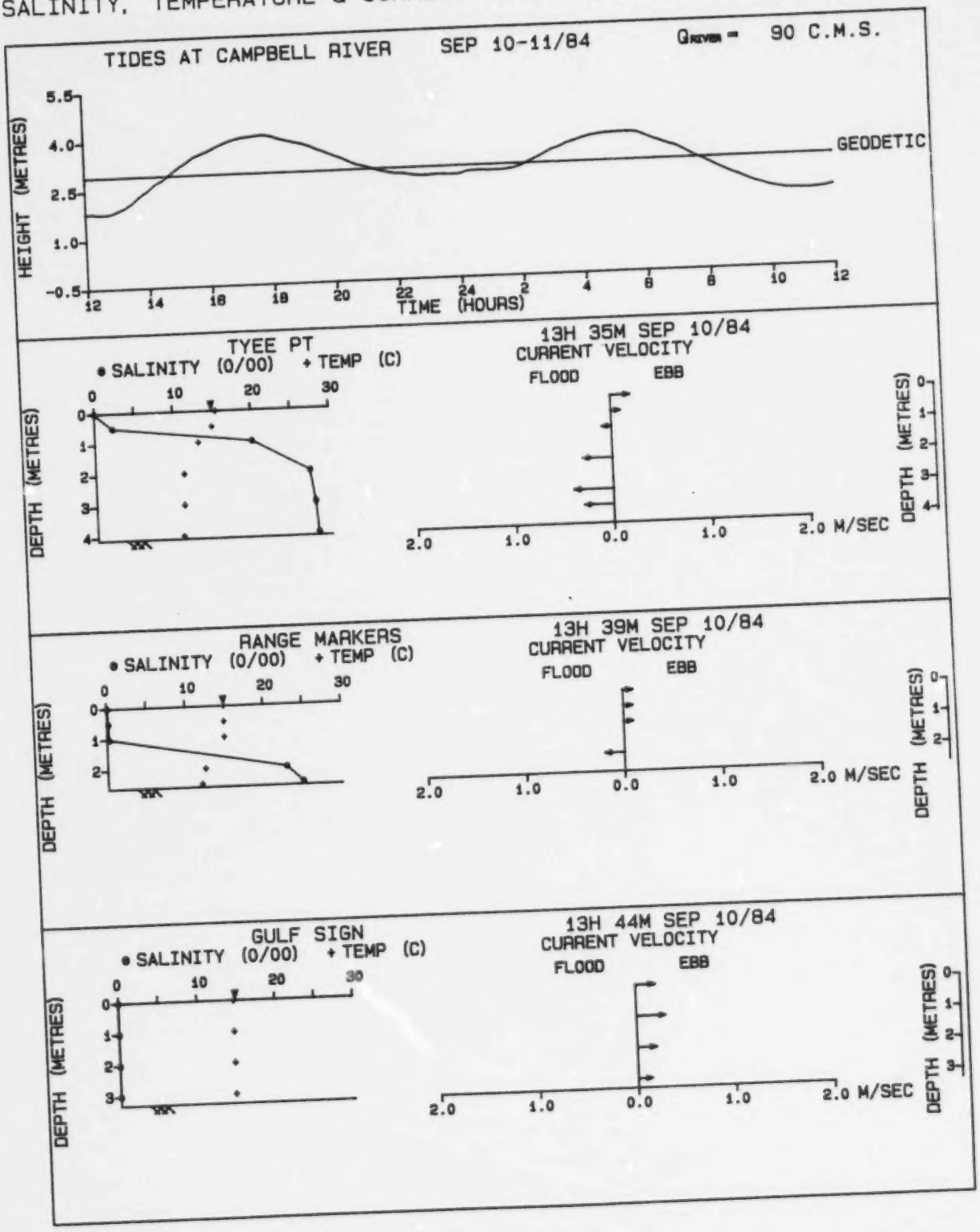
LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
PILE BREAKWATER	18H 04M	.0	.0	14.8	.80	E
		1.0	.0	14.8	.60	E
		2.0	.0	14.8	.60	E
		3.0	.5	14.6	.60	E
		4.0	20.0	13.0	.20	E
		5.0	21.4	12.5	.05	E
PRIV. FLOAT (M1)	18H 06M	.0	.0			
		1.0	.0			
		2.0	.0			
TYEE PT	18H 14M	.0	8.4	13.0		
		1.0	28.4	11.0		
		2.0	29.1	10.6		
		3.0	29.3	10.5		
		4.0	29.3	10.5		
		5.0	29.5	10.5		
		6.0	29.6	10.4		
RANGE MARKERS	18H 19M	.0	6.0	14.2	.60	E
		1.0	17.1	12.4	.40	E
		2.0	28.3	10.7	.10	F
		3.0	29.0	10.5	.02	F
GULF SIGN	18H 24M	.0	.8	14.5	.50	E
		1.0	11.4	13.5	.50	E
		2.0	27.6	12.7	.10	E
		3.0	29.0	10.5	.05	F
		4.0	29.3	10.4	.05	F
NBM MAIN	18H 27M	.0	.8	14.7	.50	E
		1.0	1.3	14.6	.50	E
		2.0	16.3	12.6	.20	E
		3.0	29.0	11.1	.05	F
		4.0	29.1	10.7	.00	
SBM MAIN	18H 31M	.0	.1	14.4	.40	E
		1.0	.1	14.5	.40	E
		2.0	2.8	14.4	.40	E
		3.0	27.9	10.8	.00	

SEP 10/84

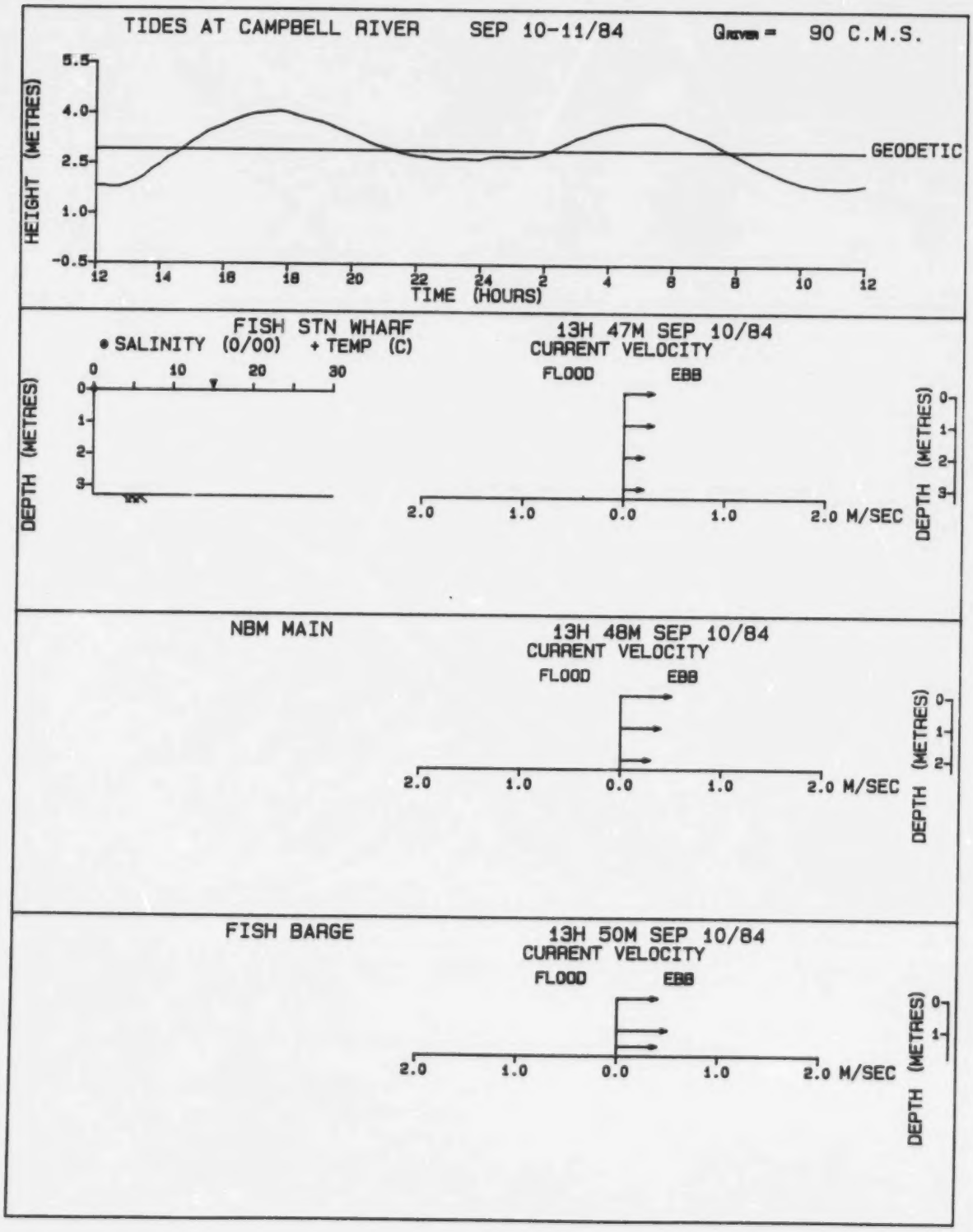
RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TOP TAG MAIN	18H 34M	.0	.1	14.5	.30	E
		1.0	.1	14.5	.40	E
		2.0	3.2	14.1	.30	E
ORANGE CRANE	18H 36M	.0	.0	14.5	.40	E
		1.0	.1	14.6	.50	E
		2.0	1.3	14.5	.50	E
		2.5	2.8	14.3	.30	E
ORANGE CRANE	18H 39M	.0	.0	14.6	.60	E
		1.0	.0	14.6	.55	E
		2.0	.0	14.6	.45	E
		3.0	.0	14.6	.50	E
		4.0	1.4	14.3	.40	E

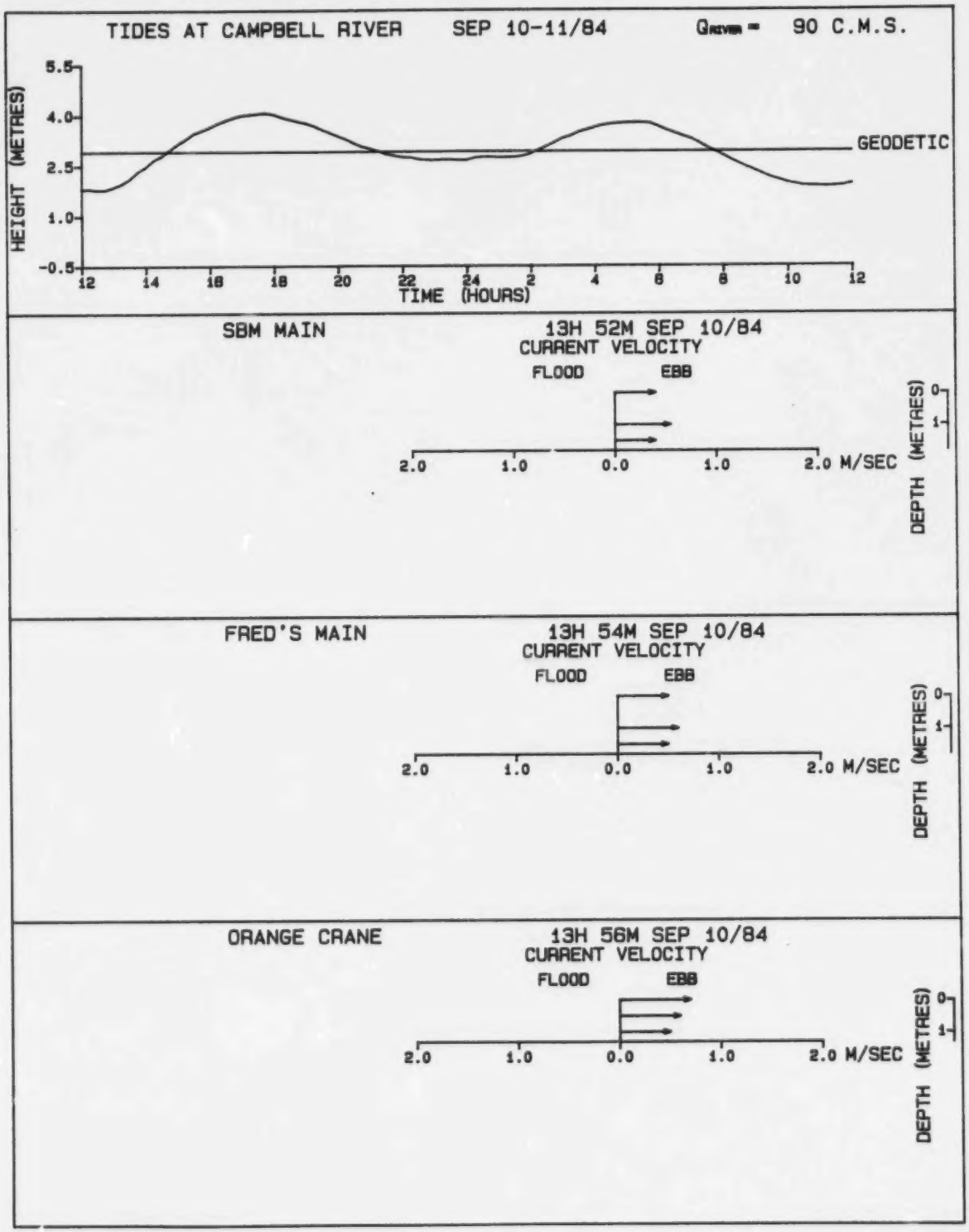
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



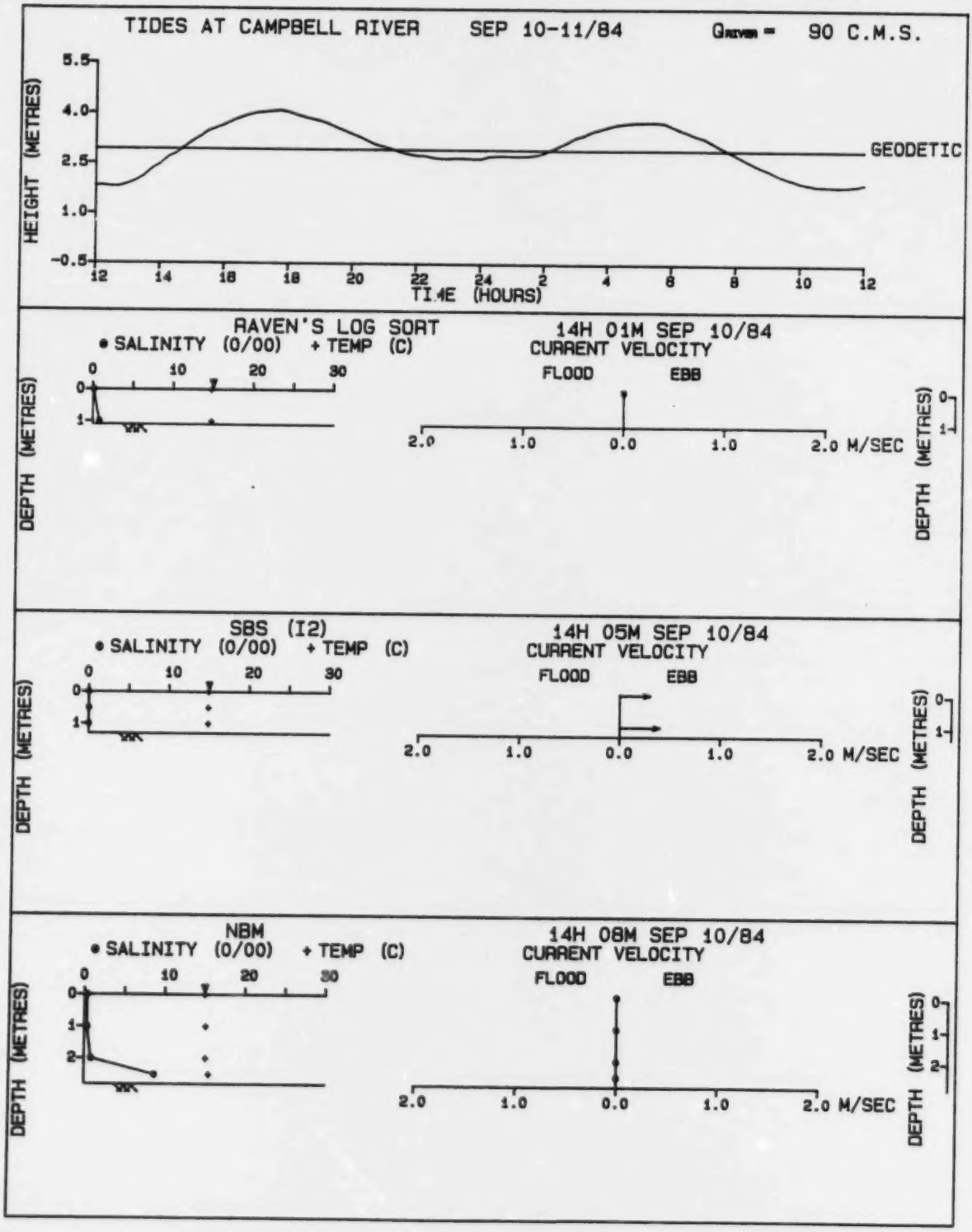
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



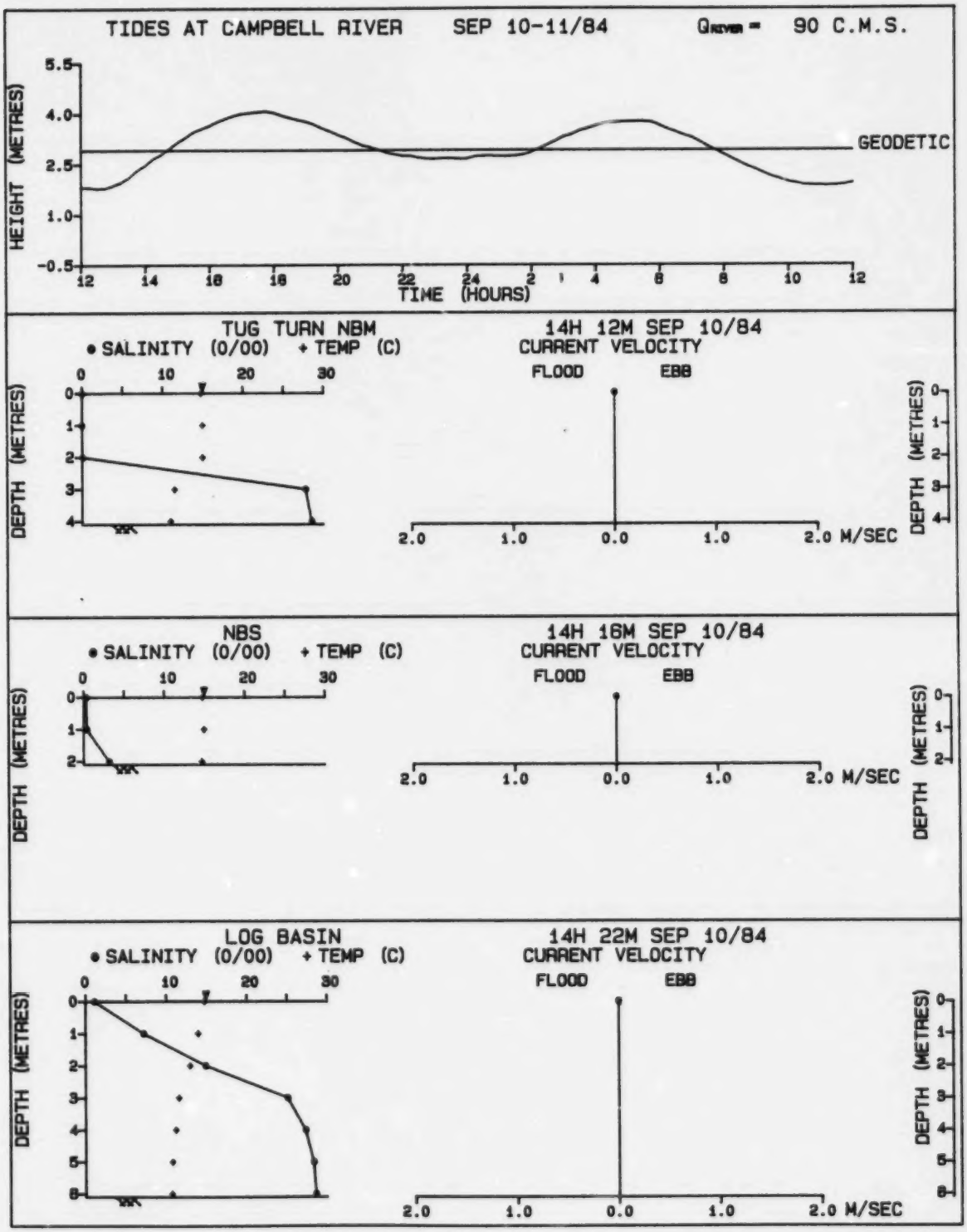
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



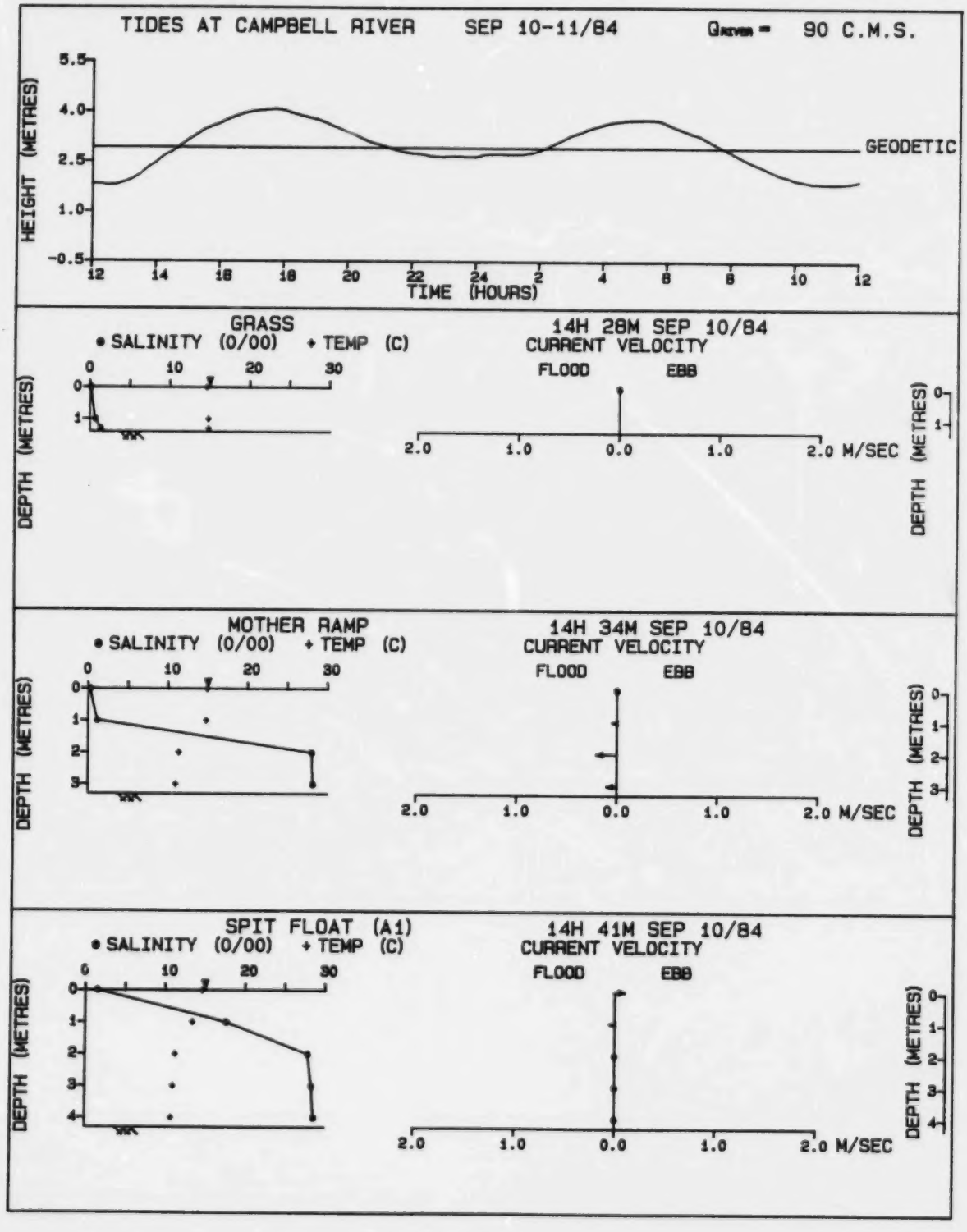
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



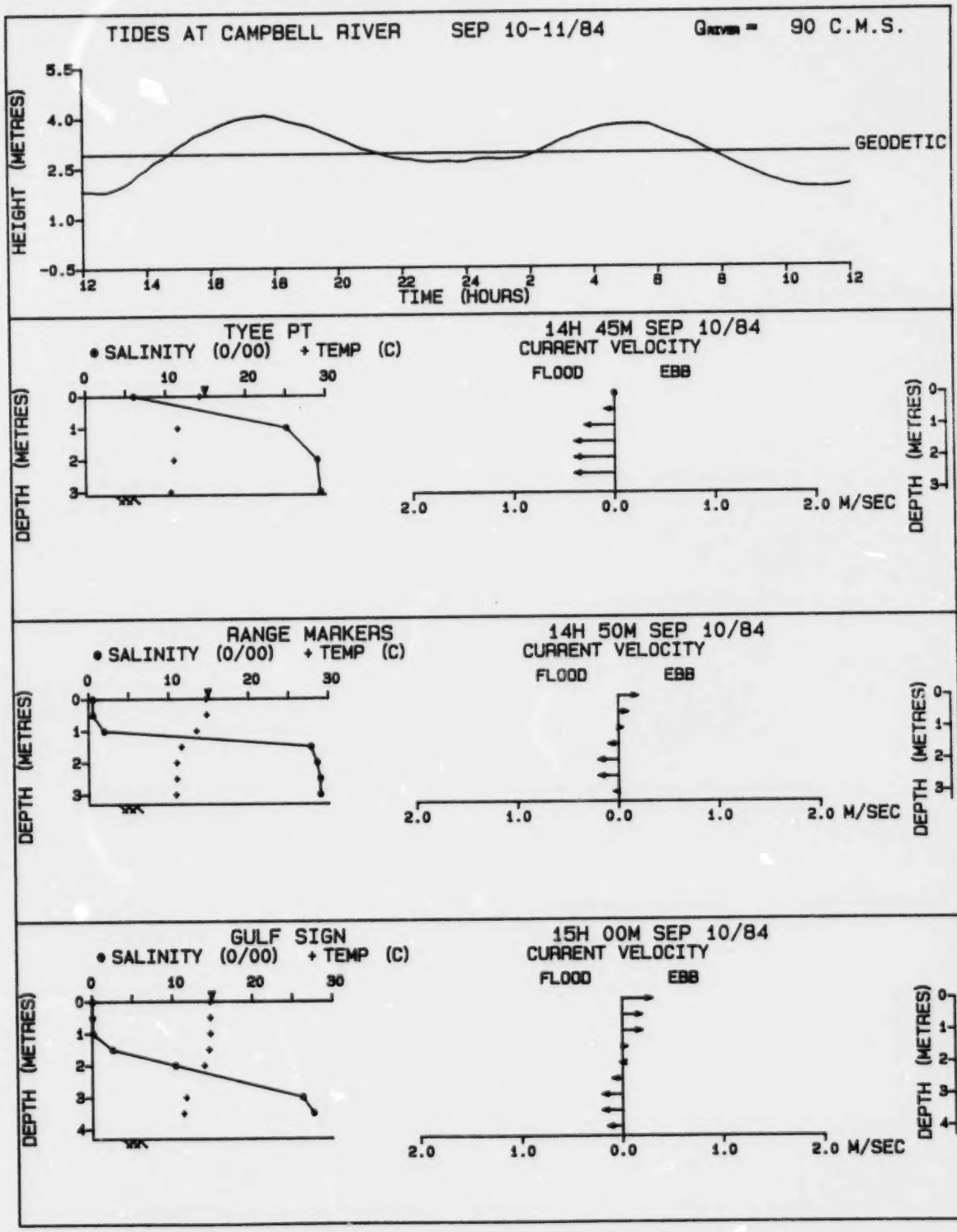
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



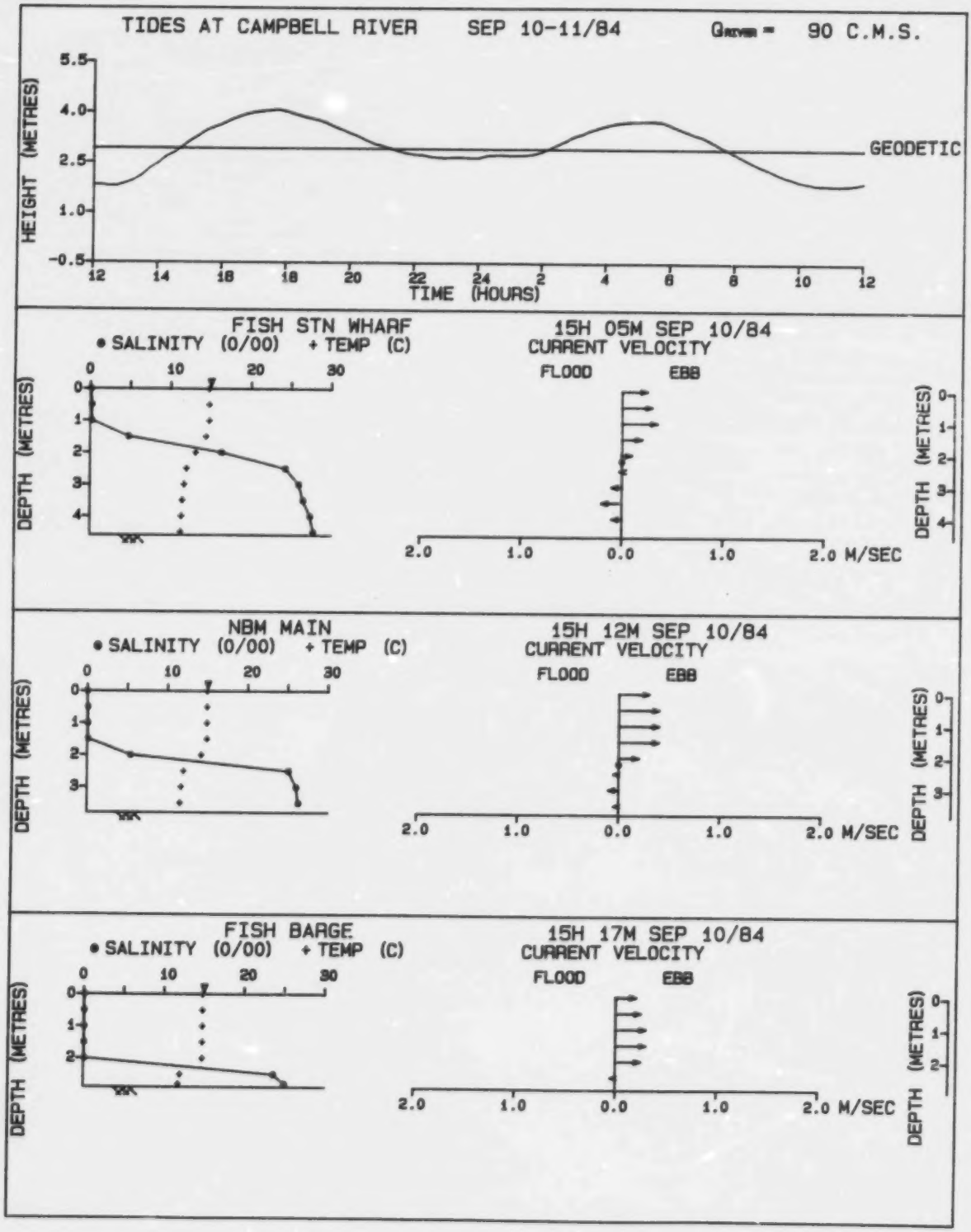
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



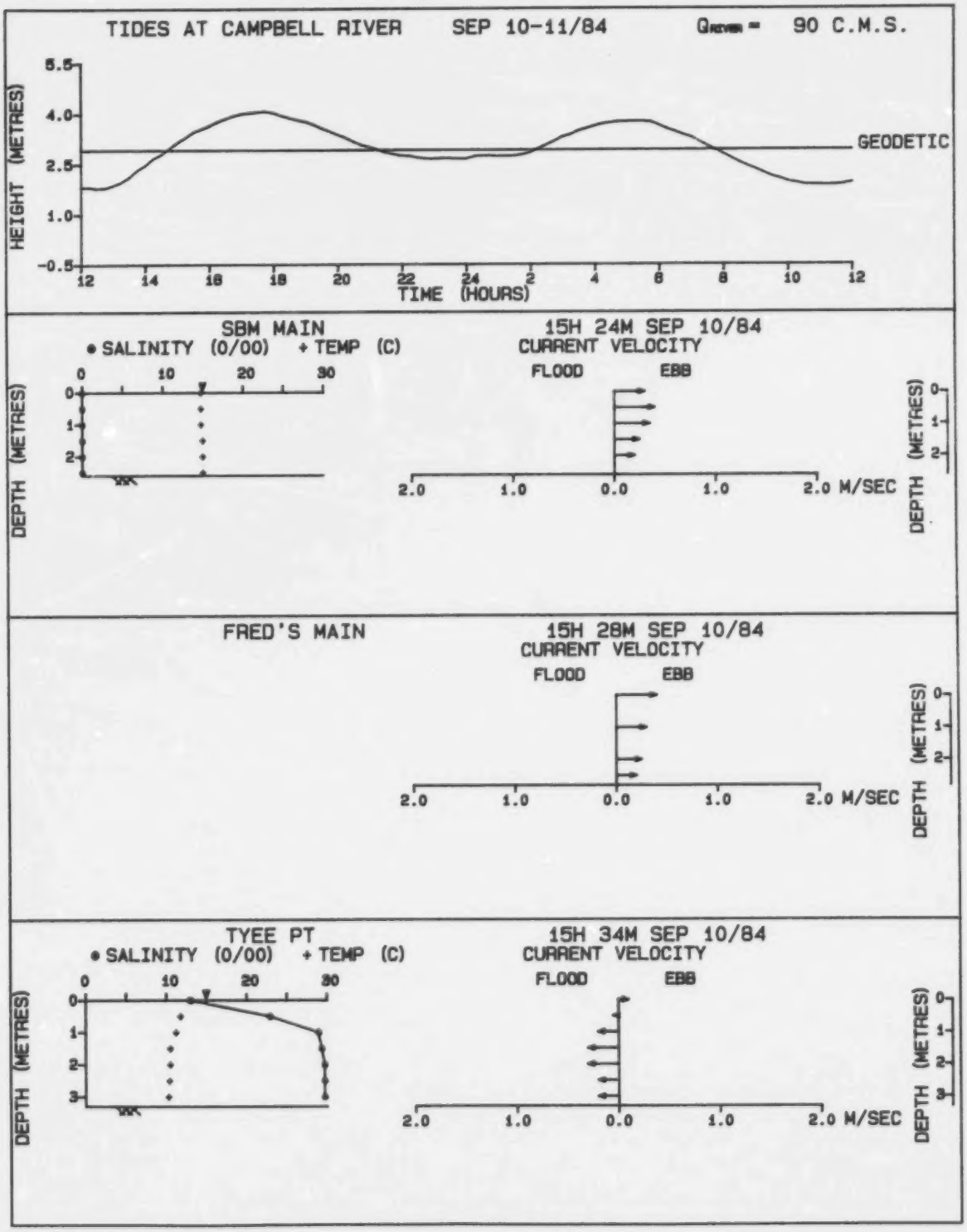
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



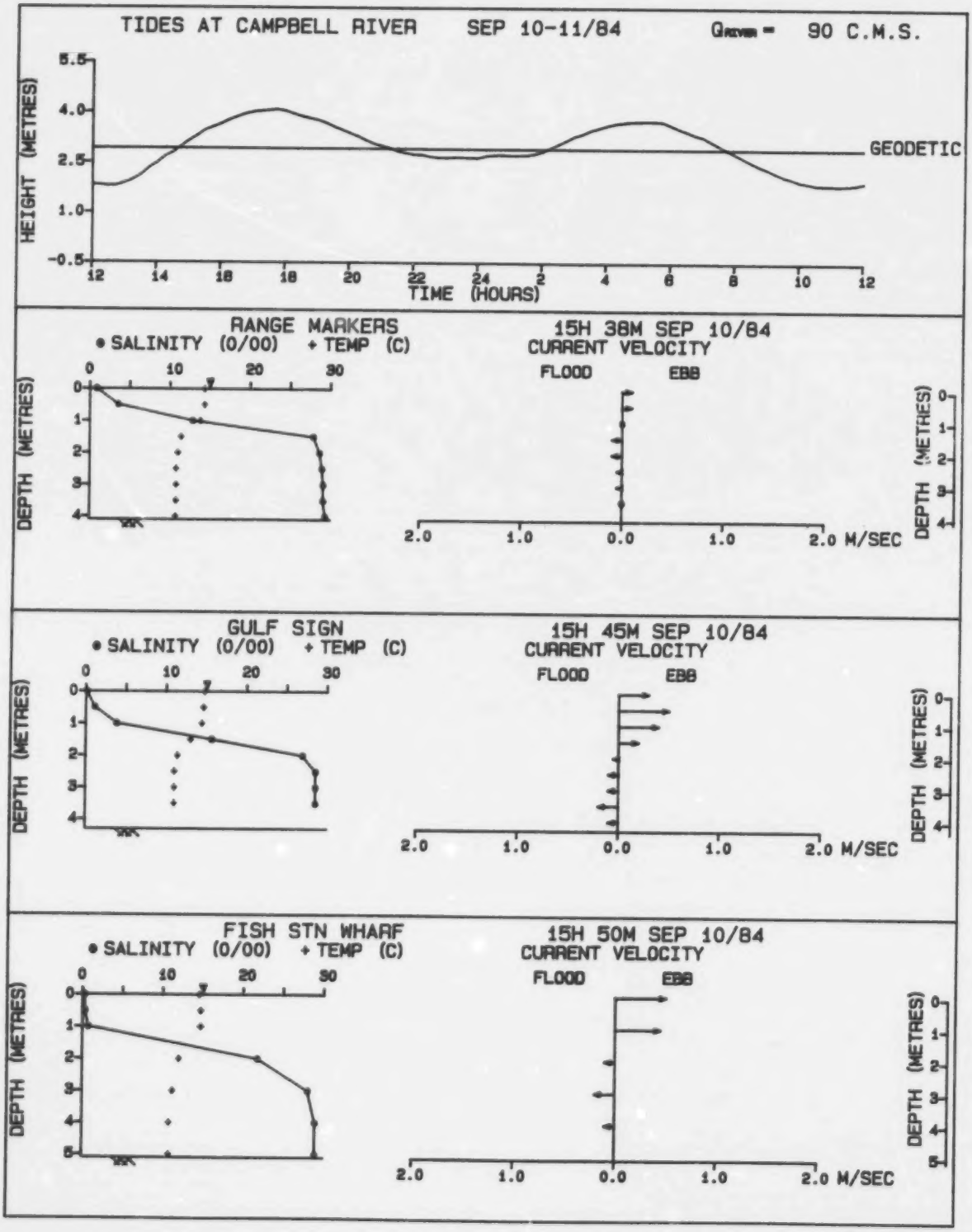
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



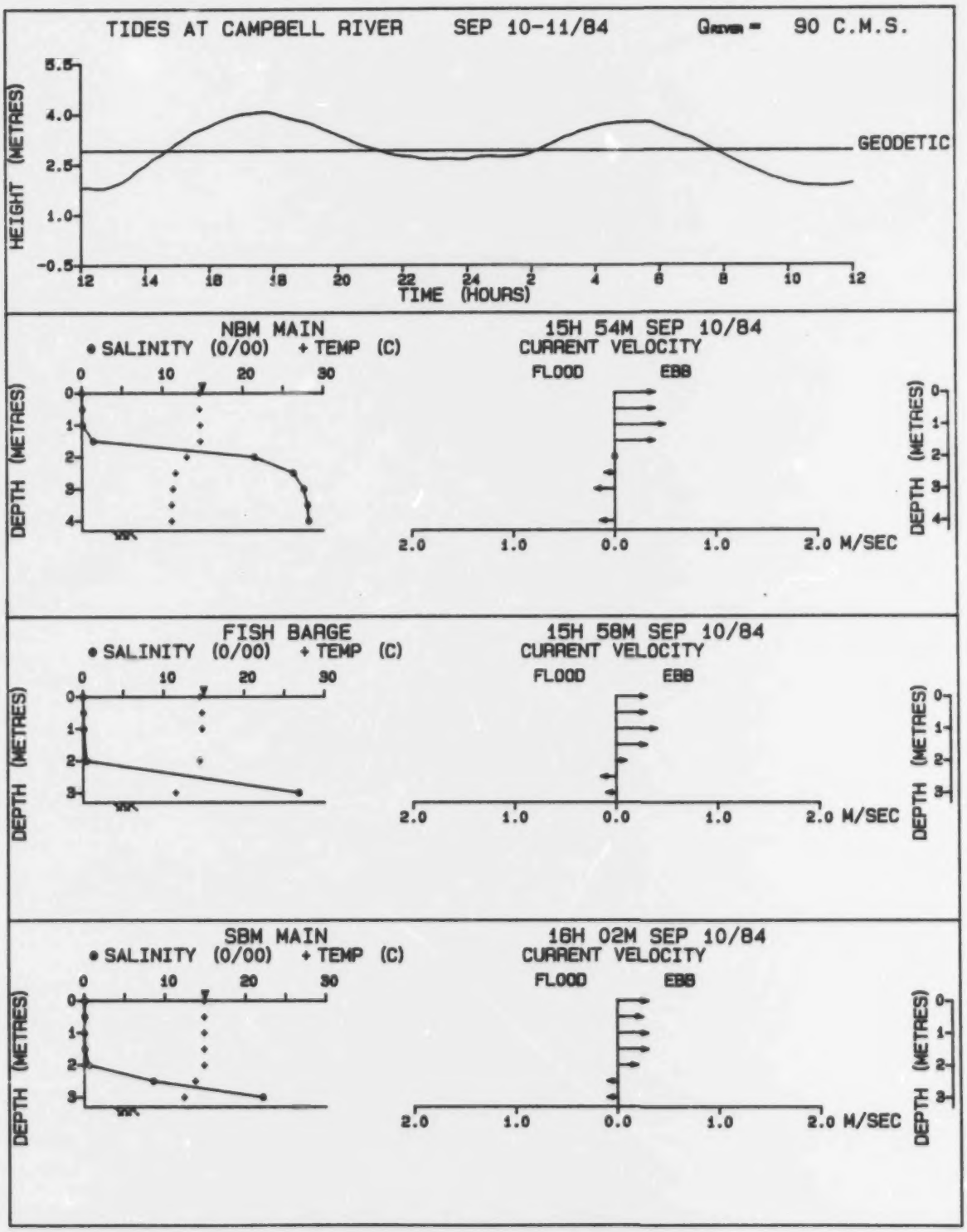
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



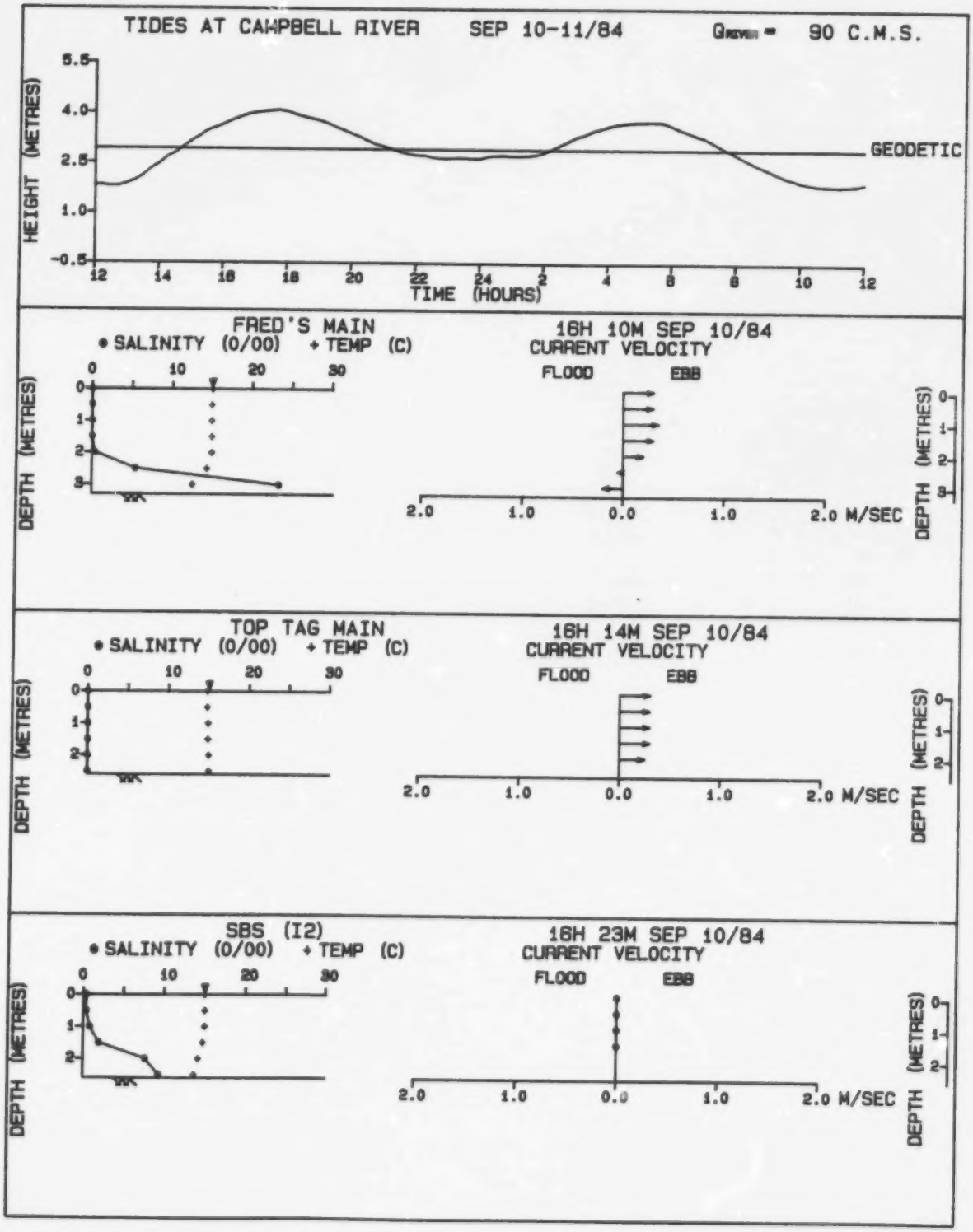
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



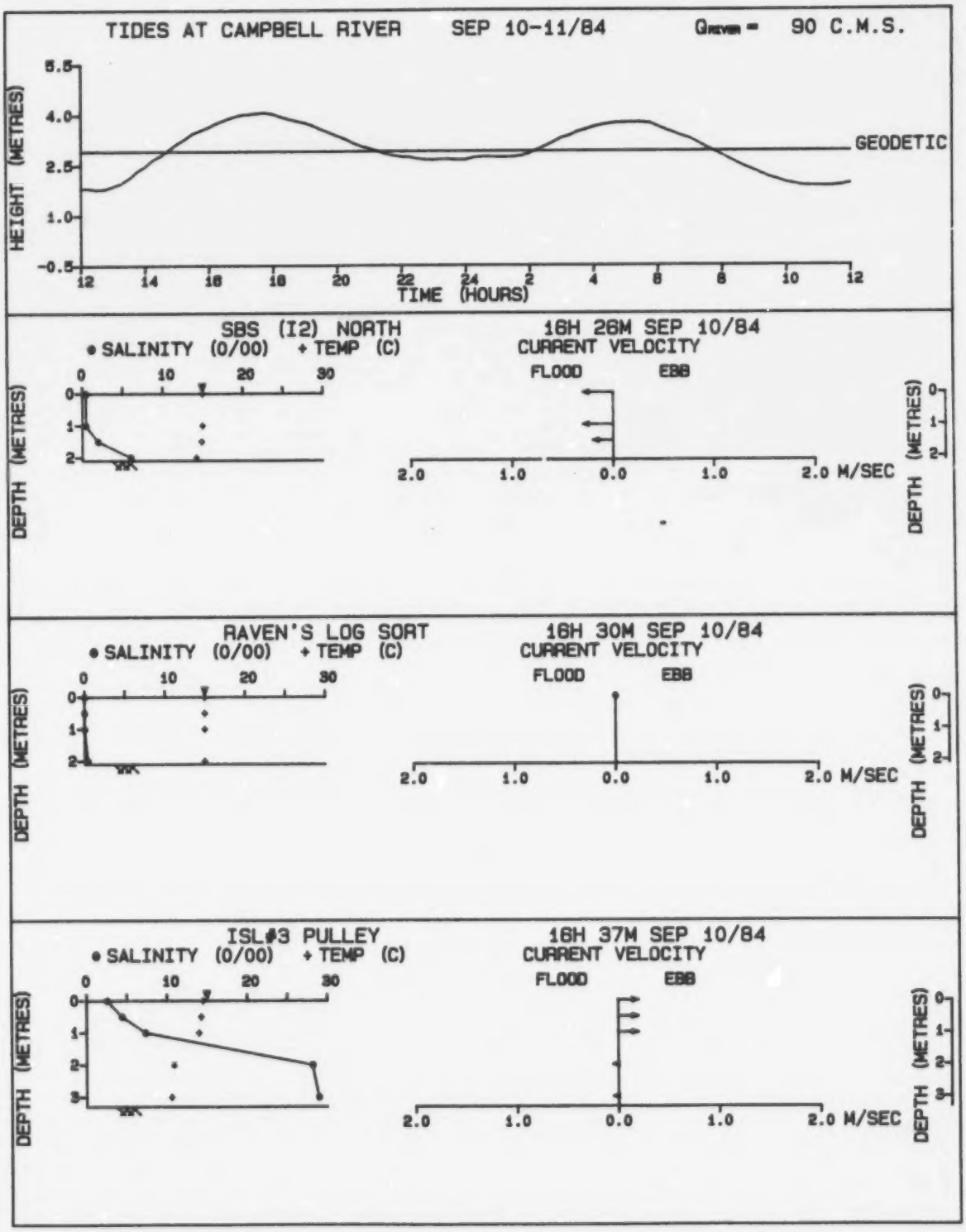
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



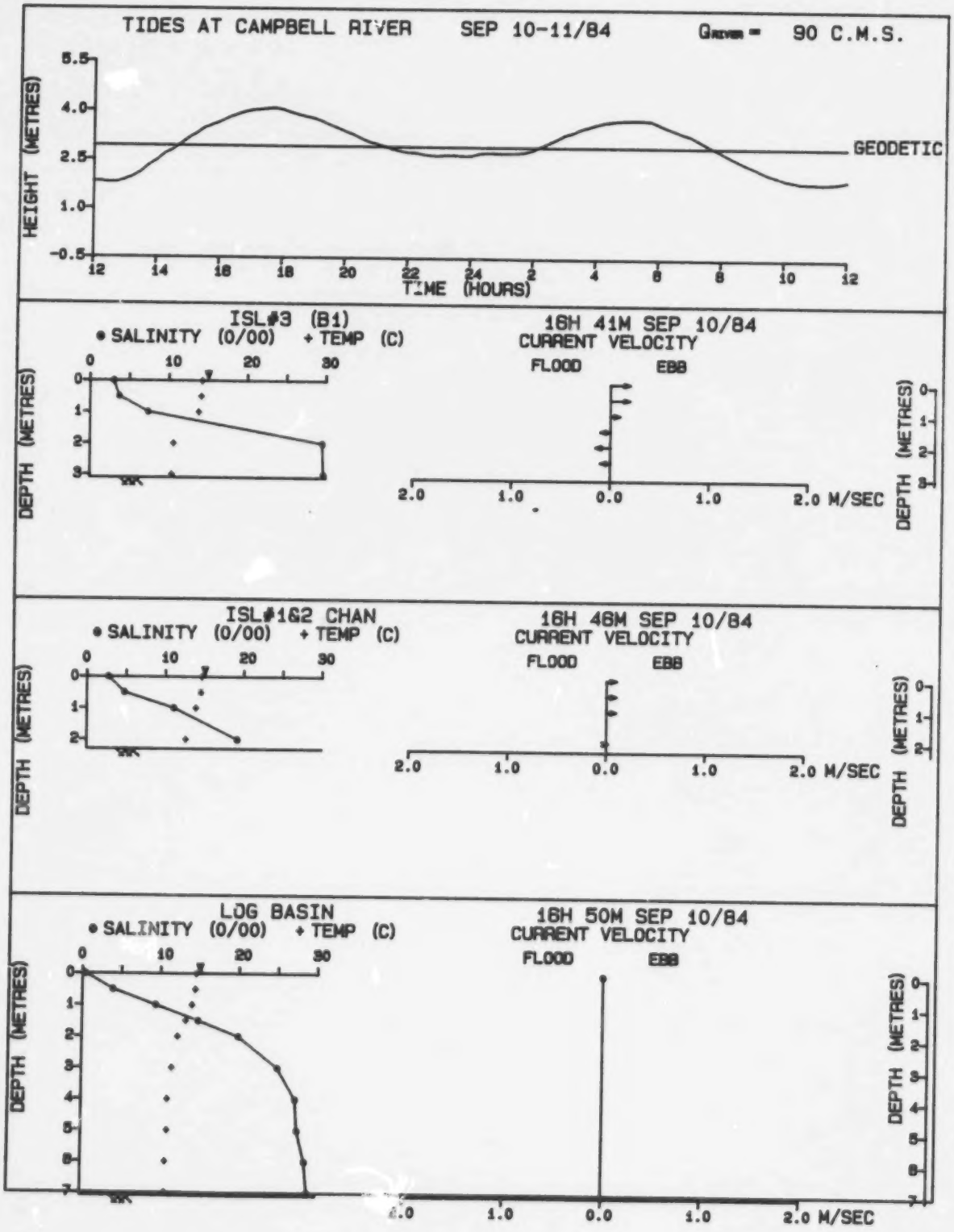
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



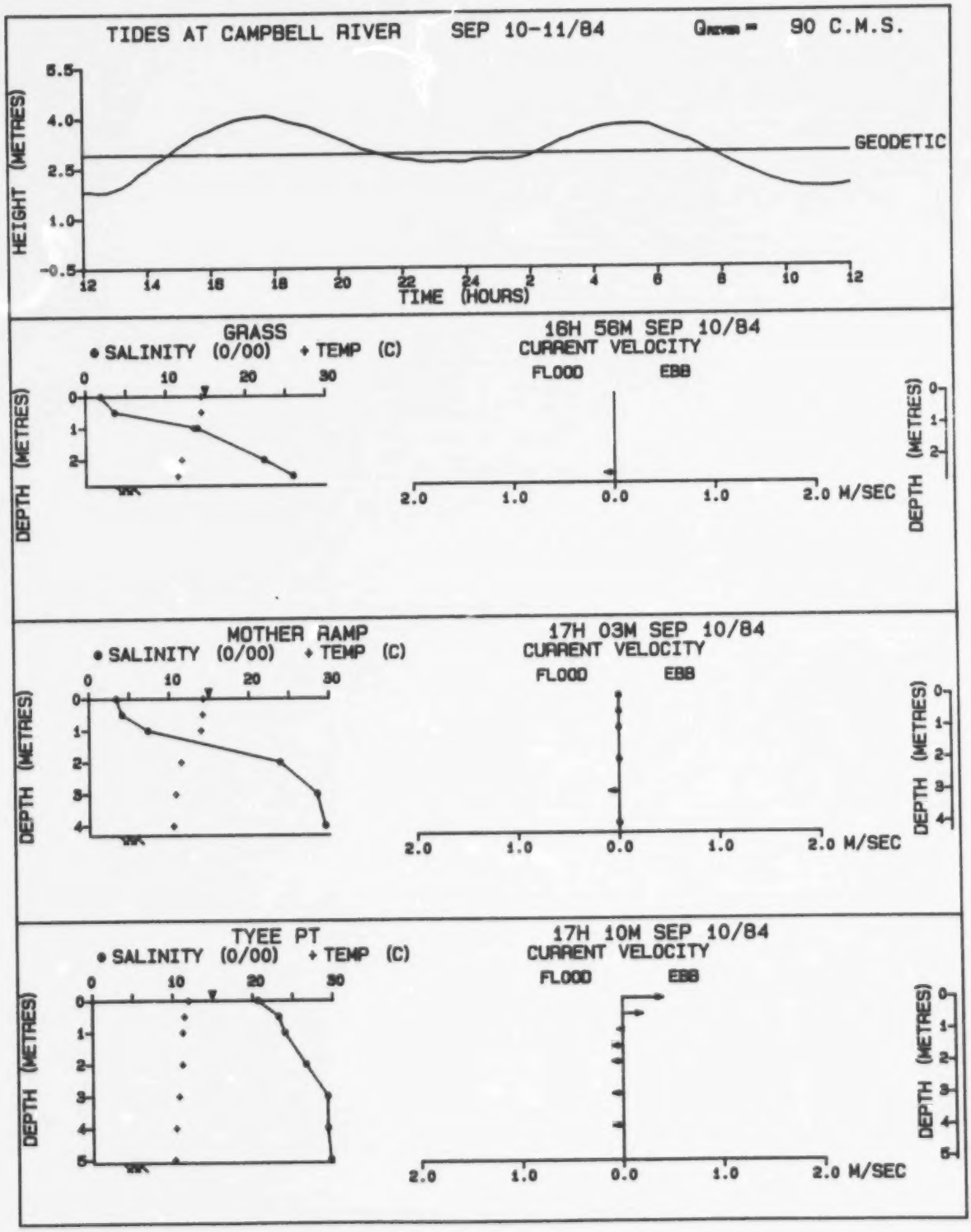
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



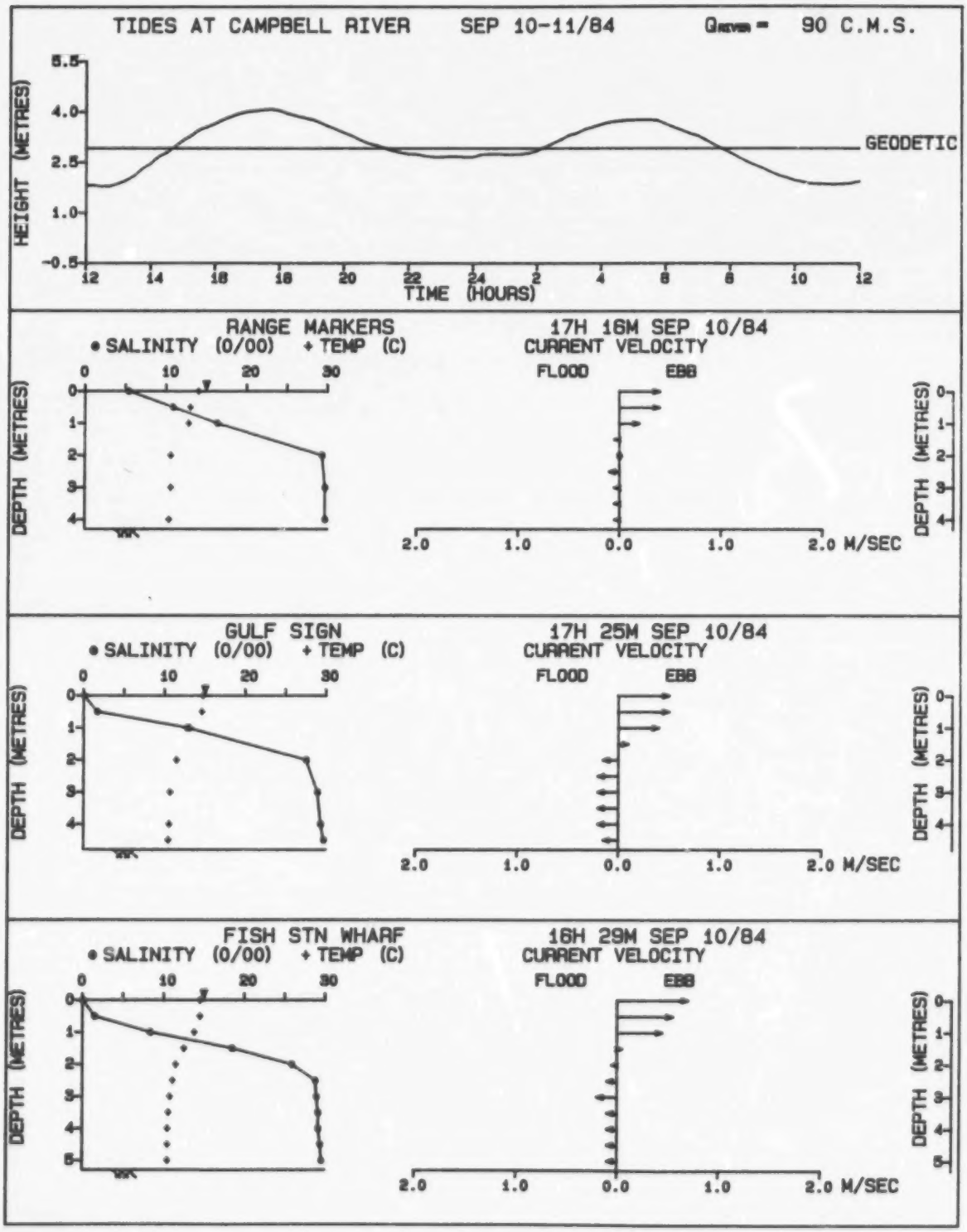
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



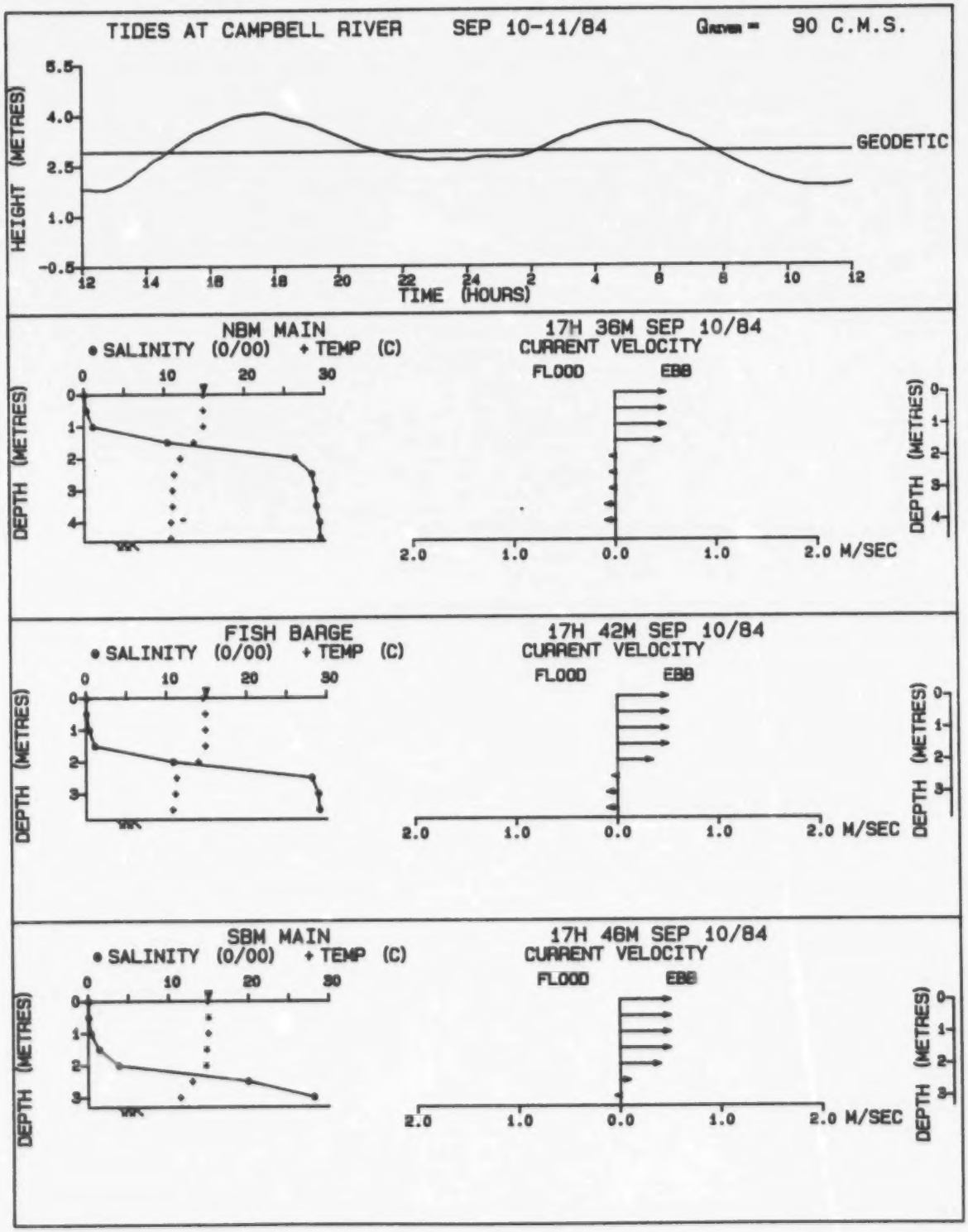
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



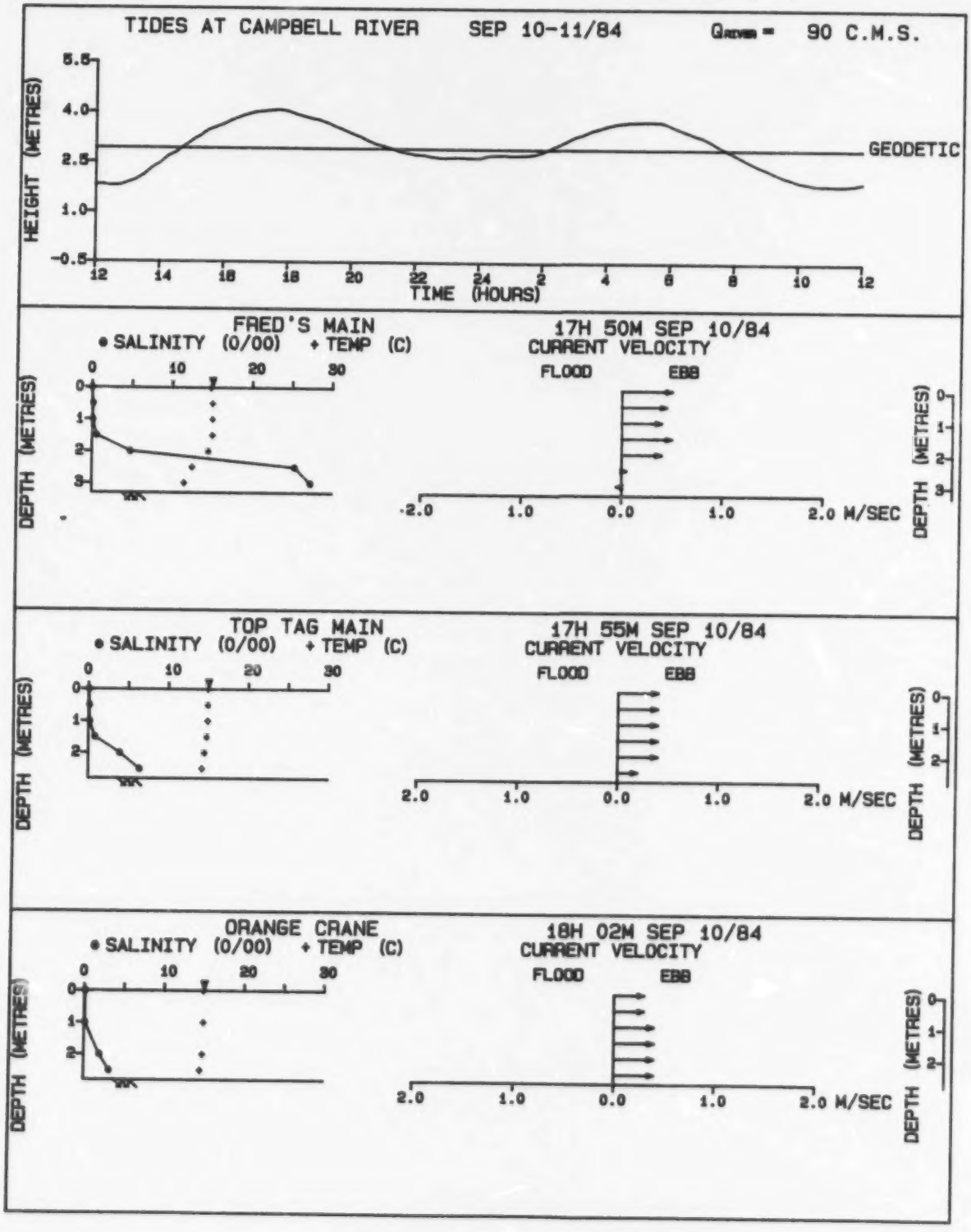
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



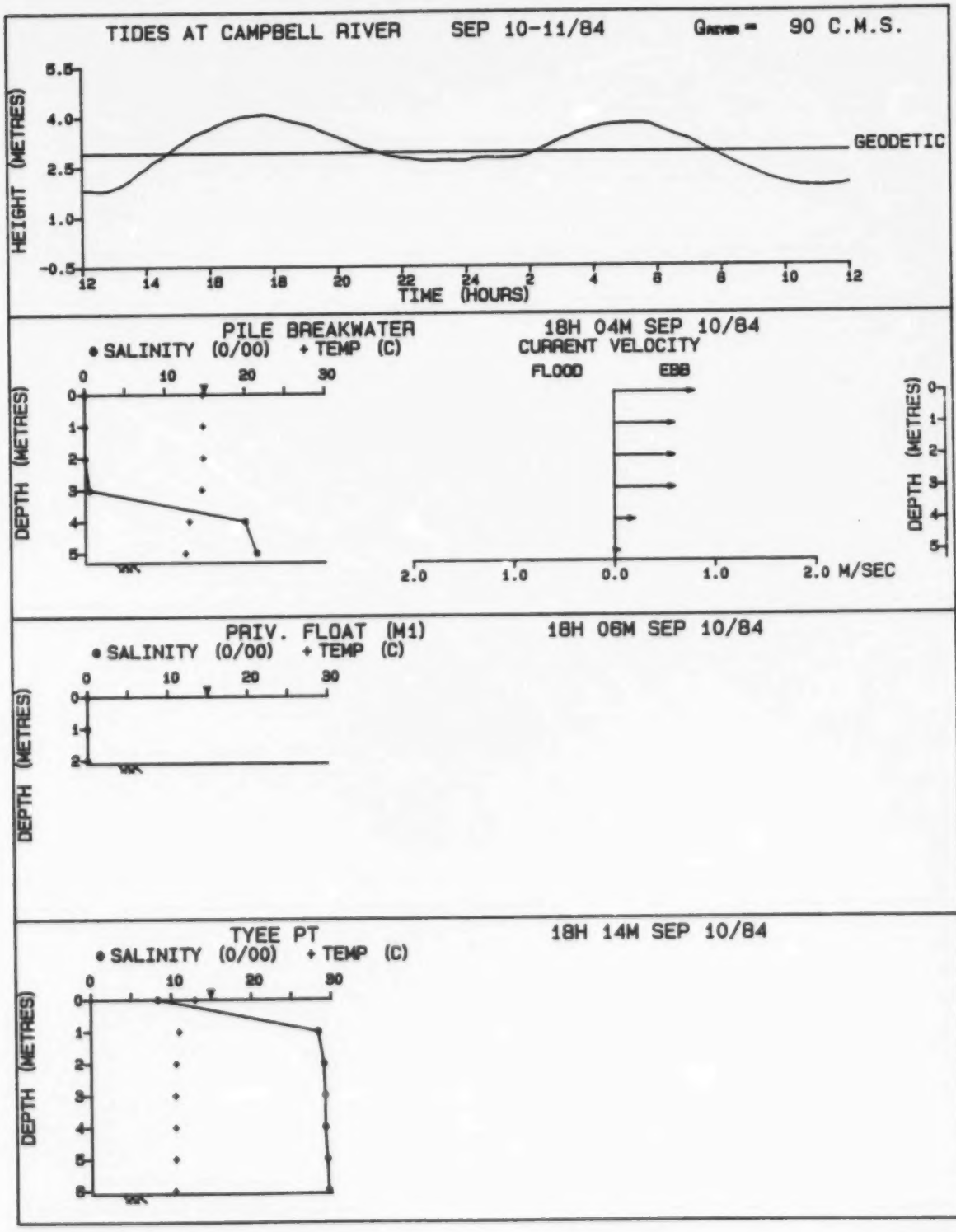
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



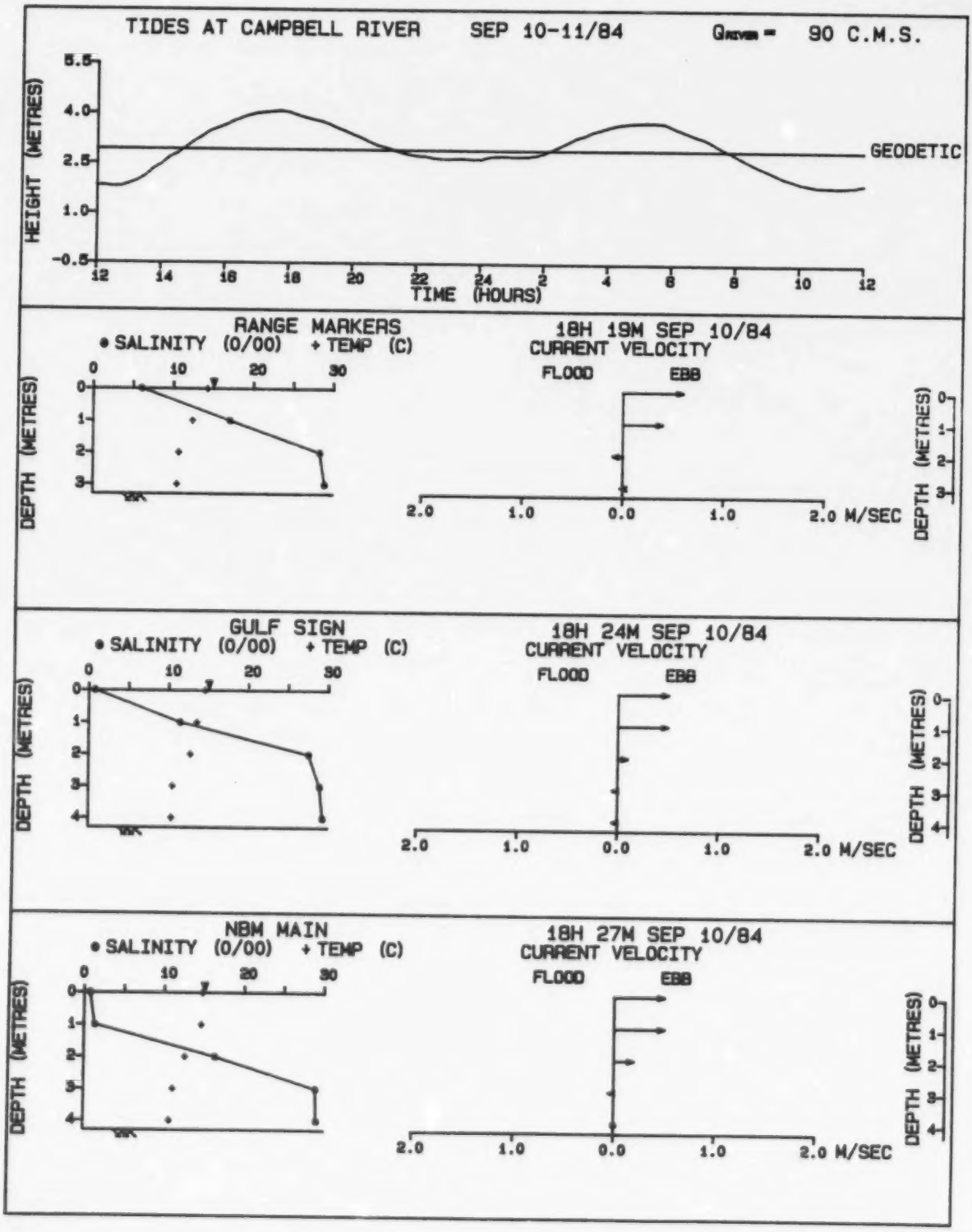
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



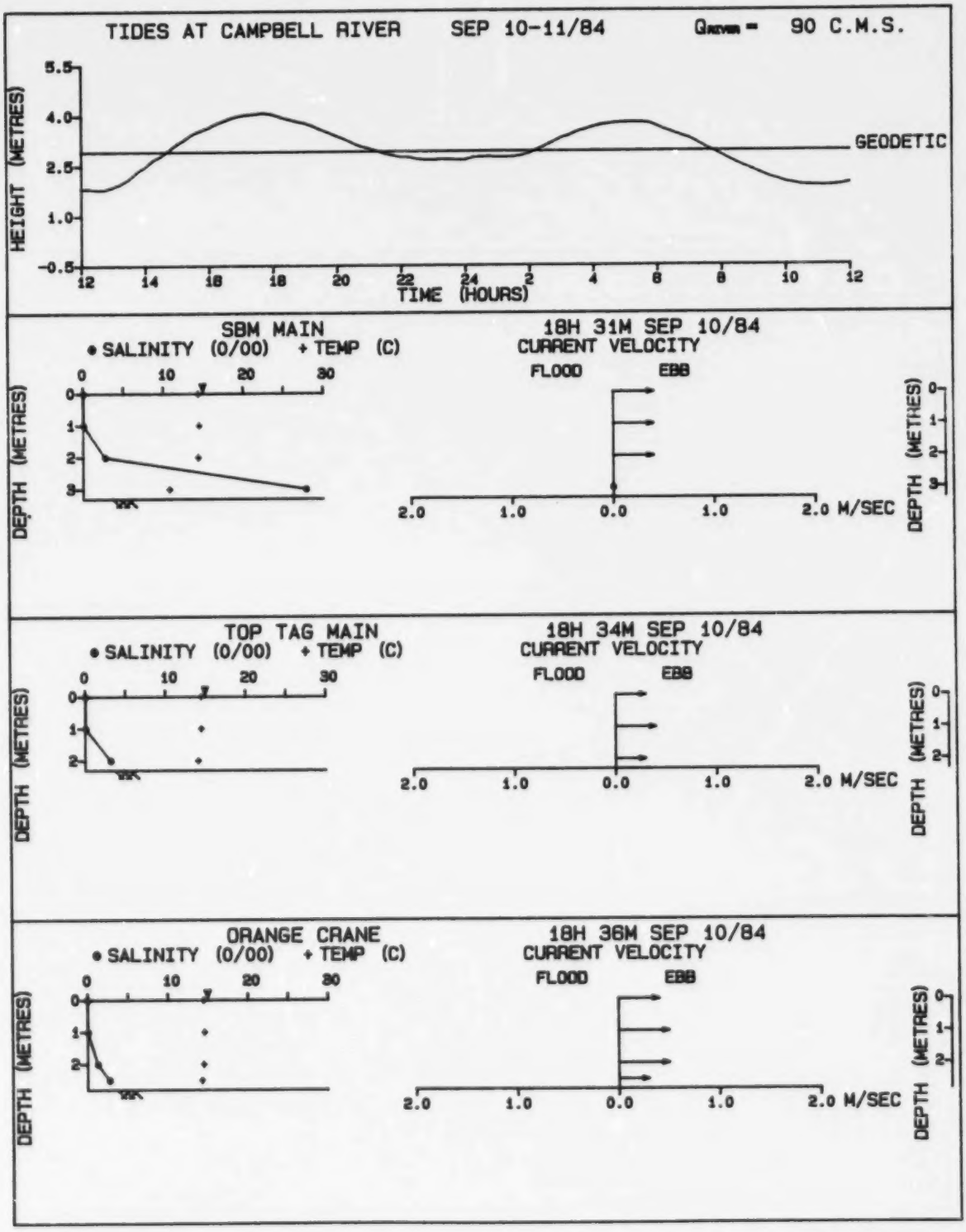
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



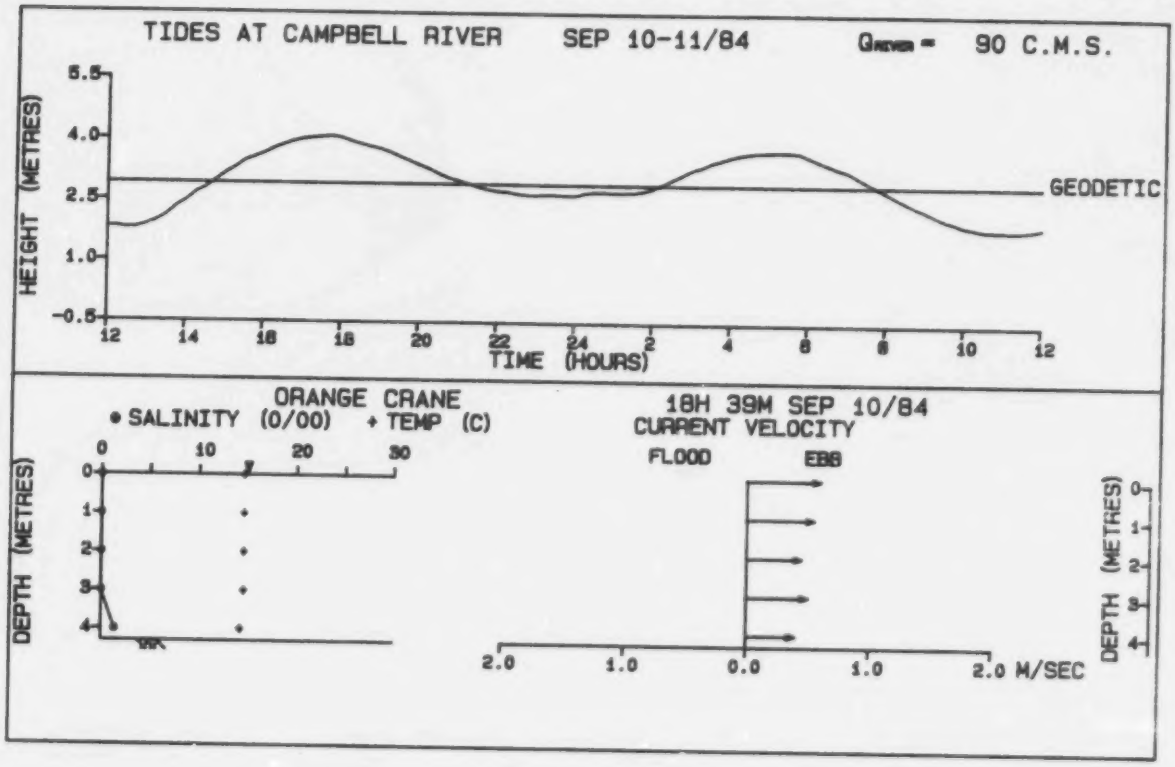
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SEP 11/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	07H 16M	.0	23.7	11.7	.30	E
		.5	29.1	10.5	.20	E
		1.0	29.3	10.5	.10	E
		2.0	29.4	10.4	.05	E
		3.0	29.7	10.4	.10	E
		4.0	29.7	10.4	.05	E
RANGE MARKERS	07H 25M	.0	4.3	14.0	.50	E
		.5	8.0	13.6	.45	E
		1.0	16.3	12.4	.30	E
		2.0	29.3	10.7	.10	F
		3.0	29.7	10.5	.10	F
GULF SIGN	07H 32M	.0	.9	14.1	.60	E
		.5	1.3	14.3	.60	E
		1.0	9.7	13.8	.50	E
		2.0	28.6	11.2	.05	F
		3.0	29.6	10.5	.10	F
FISH STN WHARF	07H 37M	.0	.4	14.3	.65	E
		.5	.9	14.4	.65	E
		1.0	2.6	14.4	.60	E
		2.0	27.4	11.0	.10	F
		3.0	29.5	10.6	.10	F
		4.0	29.7	10.5	.05	F
NBM MAIN	07H 41M	.0	.1	14.5	.60	E
		.5	.2	14.5	.70	E
		1.0	.3	14.5	.70	E
		2.0	17.8	12.6	.20	E
		3.0	29.0	11.0	.05	F
FISH BARGE	07H 45M	.0	.1	14.3	.60	E
		.5	.1	14.5	.55	E
		1.0	.2	14.6	.60	E
		2.0	.8	14.6	.60	E
		2.1	20.0	14.6		
SBM MAIN	07H 49M	.0	.1	14.6	.60	E
		1.0	.1	14.8	.55	E
		2.0	.1	14.8	.50	E

SEP 11/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FRED'S MAIN	07H 51M	.0	.1	14.7	.55	E
		1.0	.1	14.7	.60	E
		2.0	.1	14.7	.45	E
TOP TAG MAIN	07H 56M	.0	.0	14.8	.50	E
		1.0	.0	14.8	.60	E
		2.0	.0	14.8	.50	E
		3.0	.0	14.8	.60	E
ORANGE CRANE	07H 59M	.0	.0	14.8	1.00	E
		1.0	.0	14.8	.80	E
		2.0	.0	14.8	.70	E
		3.0	.0	14.8	.60	E
PILE BREAKWATER	08H 03M	.0	.0	14.8	1.60	E
		1.0	.0	14.8	1.00	E
		2.0	.0	14.8	.90	E
		3.0	.0	14.8	.60	E
		4.0	.0	14.8	.50	E
		4.5			.50	E
ISL#3 PULLEY	08H 48M	.0	1.9	13.8		
		.5	4.5	13.9		
		1.0	29.6	10.8		
ISL#3 (B1)	08H 50M	.0	3.2	14.0		
		.5	5.1	13.8		
		1.2	9.7	13.1		
MOTHER RAMP	08H 59M	.0	4.4	13.8		
		1.0	8.2	13.6		
		2.0	26.1	11.5		
		3.0	27.8	10.2		
GRASS	09H 04M	.0	3.2	14.0		
		.5	3.7	14.3		
		1.0	14.6	13.5		
LOG BASIN	09H 08M	.0	4.0	13.9		
		.5	6.4	13.6		
		1.0	15.6	12.8		

SEP 11/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
LOG BASIN	09H 08M	2.0	26.7	11.8		
		3.0	28.2	11.2		
		4.0	28.6	11.2		
		5.0	29.0	10.8		
		5.8	29.3	10.8		
LOG BASIN CHAN#2	09H 14M	.0	5.7	13.7		
		1.0	9.4	13.6		
		2.0	25.9	11.5		
		3.0	27.9	11.2		
		4.0	28.6	10.8		
		5.0	29.0	10.8		
TYEE PT	09H 25M	.0	4.8	14.0	.65	E
		1.0	10.7	13.7	.55	E
		2.0	27.8	11.2	.15	E
		3.0	29.2	10.8	.05	F
RANGE MARKERS	09H 29M	.0	3.8	14.2	.20	E
		.5	4.3	14.2	.10	E
		1.0	4.8	14.0	.10	E
		2.0	29.2	11.2	.05	E
		2.5	29.5	10.8	.00	
GULF SIGN	09H 35M	.0	.2	14.8	.60	E
		.5	.4	14.8	.65	E
		1.0	.6	14.8	.70	E
		2.0	2.9	14.5	.40	E
		3.0	29.1	11.5		
FISH STN WHARF	09H 38M	.0	.1	14.8	.70	E
		.5			.70	E
		1.0	.2	14.8	.70	E
		2.0	.9	14.8	.60	E
		3.0	29.6	11.2	.05	E
NBM MAIN	09H 42M	.0	.0	14.8	.60	E
		1.0	.1	14.8	.60	E
		2.0	.1	14.8	.50	E
		2.5	.1	14.8		

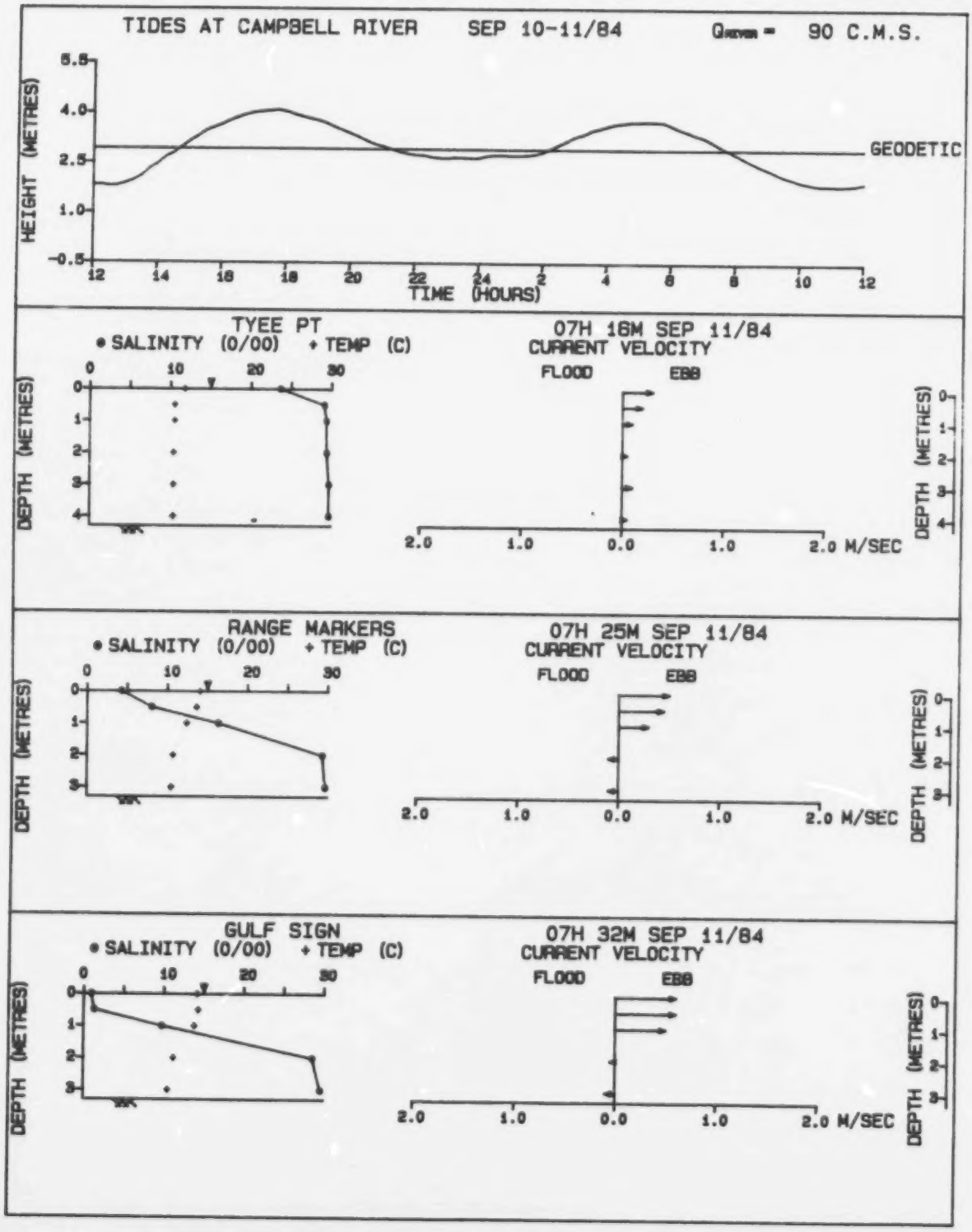
SEP 11/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH BARGE	09H 45M	.0	.0	14.8	.70	E
		1.0	.0	14.8	.70	E
		1.5	.0	14.8	.60	E
SBM MAIN	09H 48M	.0			.80	E
SBM MAIN	09H 48M	1.0			.80	E
SBM MAIN	09H 48M	1.5			.70	E
RAVEN'S LOG SORT	09H 53M	.0	1.4	14.5		
		.5	1.4	14.5		
SBS (I2) NORTH	09H 57M	.0	1.8	14.4		
		.5	6.4	14.0		
TUG TURN NBM	10H 01M	.0	1.4	14.2		
		1.0	1.7	14.3		
		2.0	25.9	11.7		
		3.0	28.4	11.1		
NBS	10H 05M	.0	1.5	14.6		
		.9	2.2	14.5		
NBM	10H 08M	.0	1.4	14.4		
		1.0	1.5	14.4		
		2.0	23.7	12.0		
TYEE PT	10H 14M	.0	2.8	14.0	.40	E
		1.0	12.8	13.0	.20	E
		2.0	25.9	11.2	.05	E
		2.5			.10	F
		3.0	27.7	10.7		
RANGE MARKERS	10H 20M	.0	3.2	14.3	.30	E
		1.0	3.6	14.3	.30	E
		2.0	28.6	10.8	.05	E

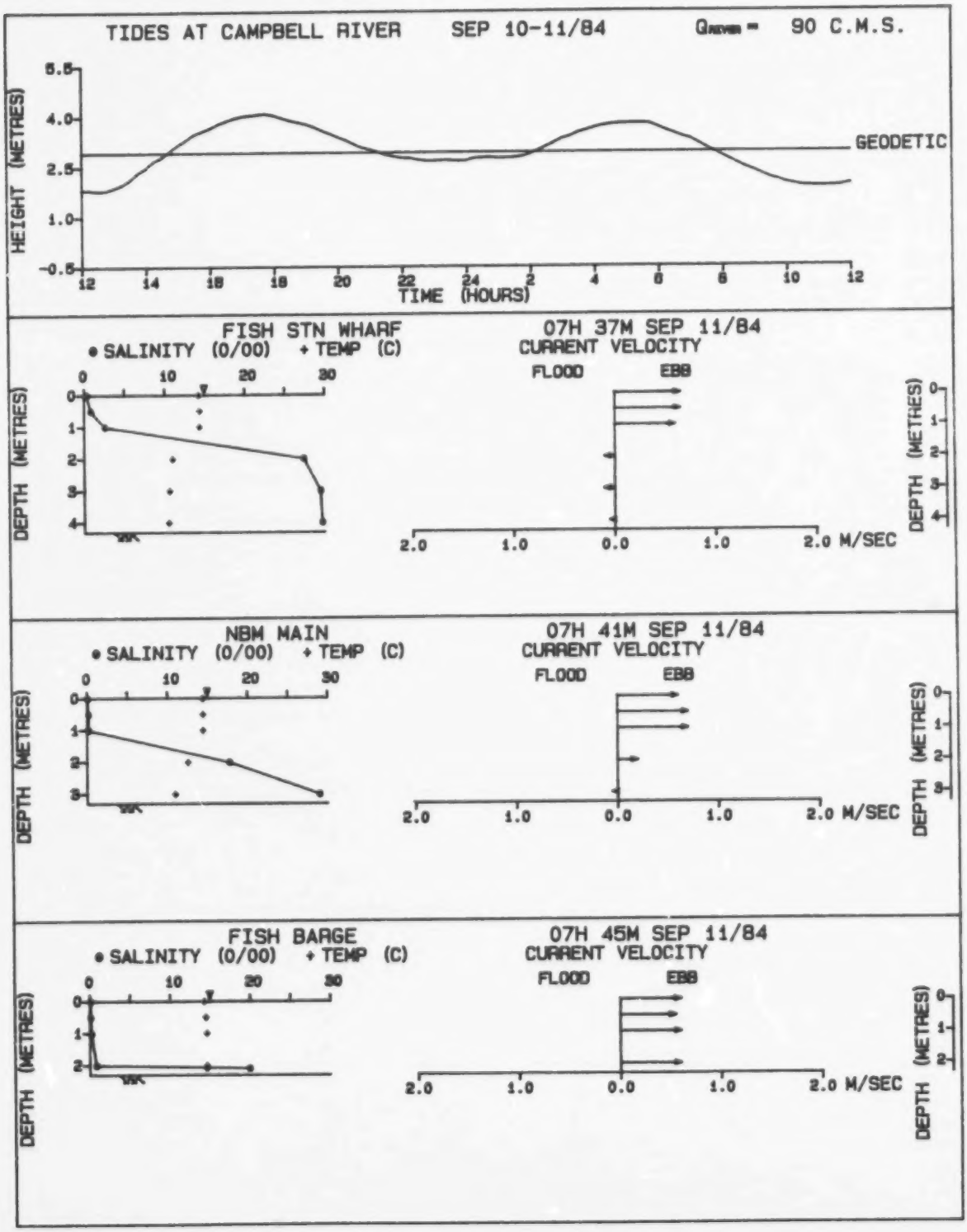
SEP 11/84 RIVER DISCHARGE = 90 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
GULF SIGN	10H 25M	.0	.3	14.7	.50	E
		1.0	.4	14.6	.60	E
		2.0	.4	14.6	.50	E
		2.5			.30	E
		3.0	9.4	13.5		
FISH STN WHARF	10H 30M	.0	.2	14.4	.60	E
		1.0	.2	14.6	.60	E
		2.0	1.9	14.5	.60	E
		3.0	23.7	12.0	.30	E
NBM	10H 36M	.0	.0	14.5	.60	E
		1.0	.0	14.8	.60	E
		2.0	.0	14.8	.10	E
TYEE PT	10H 50M	.0	2.0	14.3	.60	E
		1.0	4.6	14.2	.50	E
		2.0	26.8	11.1	.10	F
		3.0	28.0	11.0	.05	F
		4.0	29.0	10.6	.05	F
RANGE MARKERS	10H 57M	.0	1.6	14.5	.20	E
		1.0	2.3	14.5	.10	E
		2.0	28.6	10.8	.05	F
GULF SIGN	11H 04M	.0	.2	14.6	.50	E
		1.0	.4	14.5	.55	E
		2.0	.5	14.7	.55	E
		3.0	1.1	14.6	.40	E

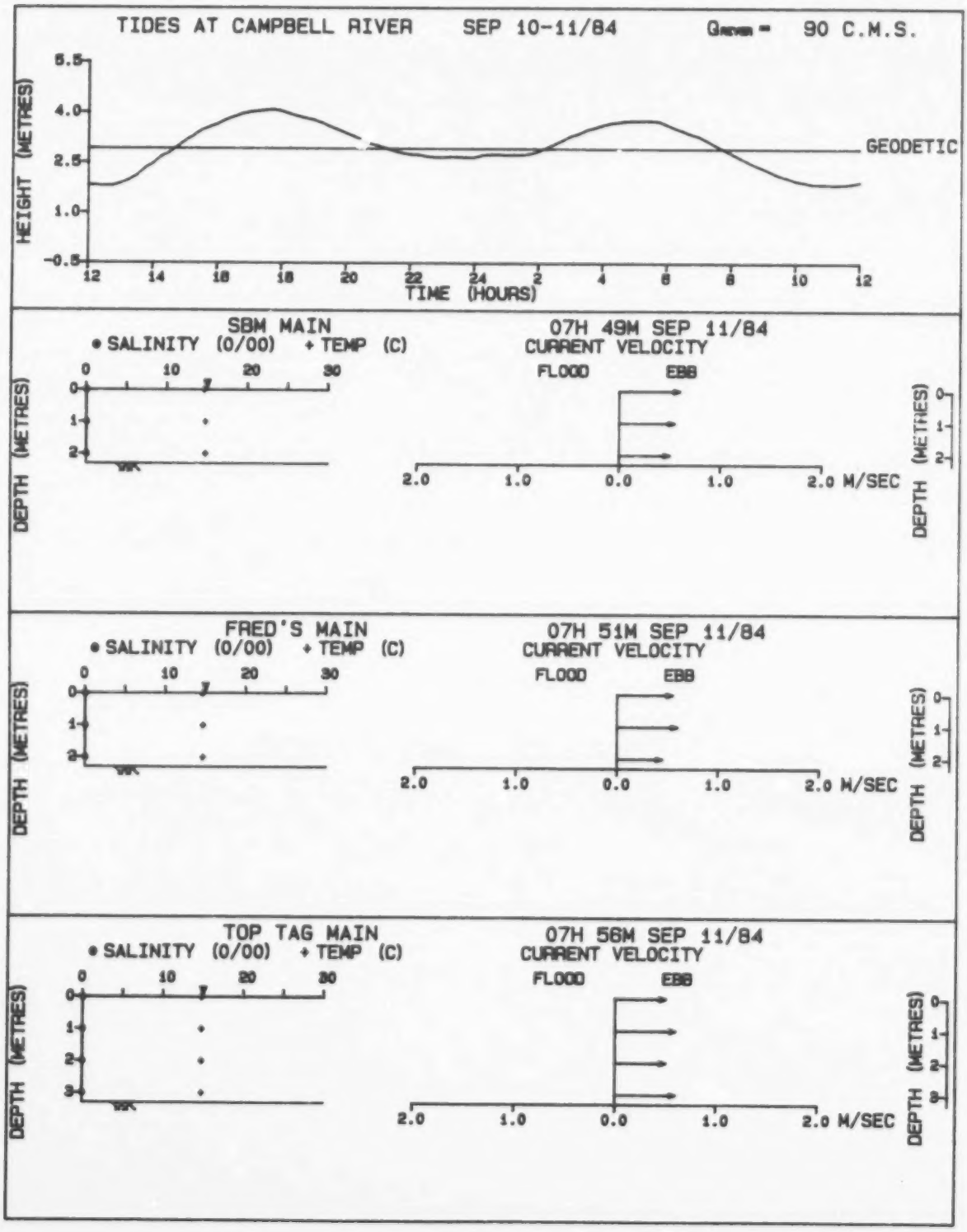
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



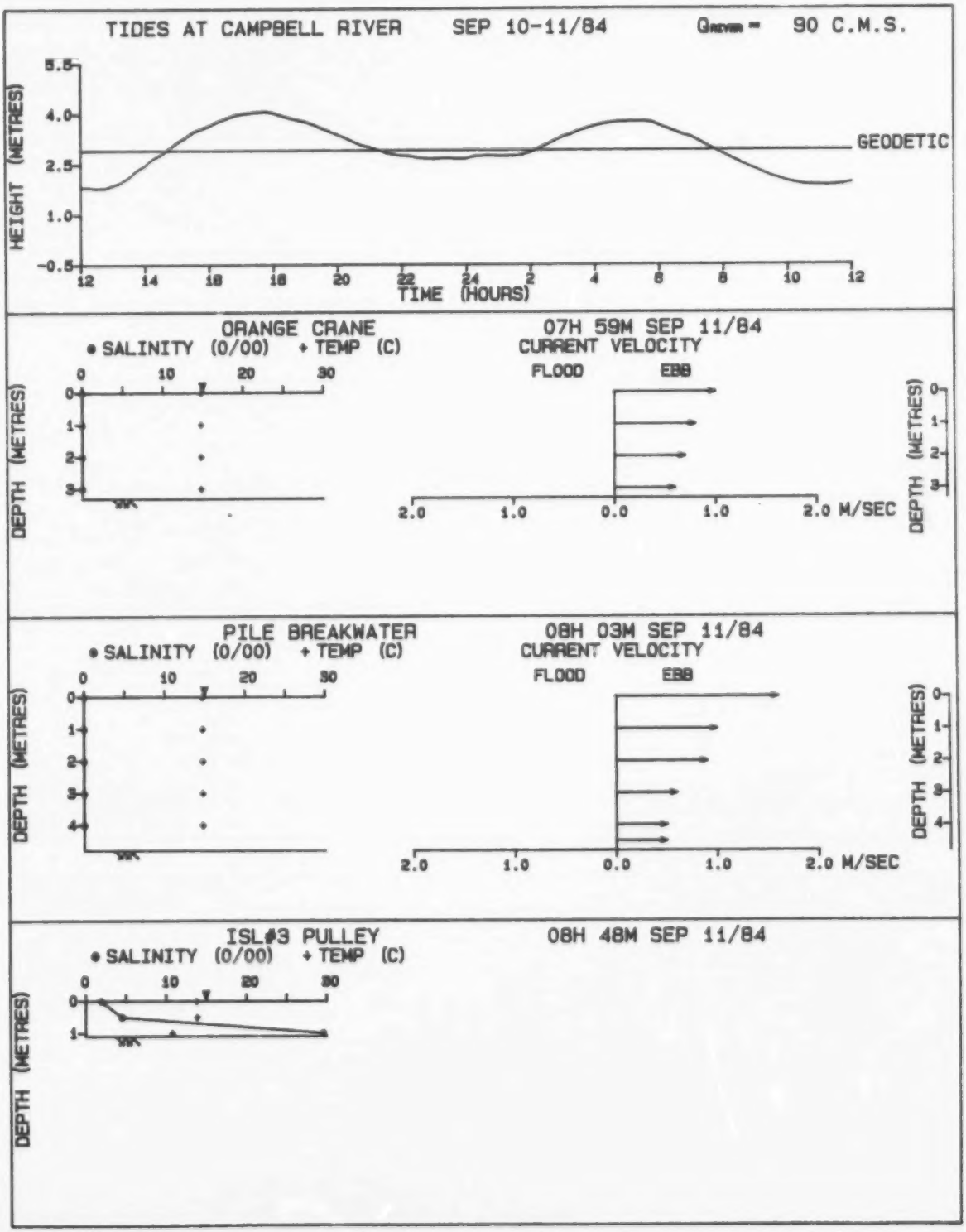
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



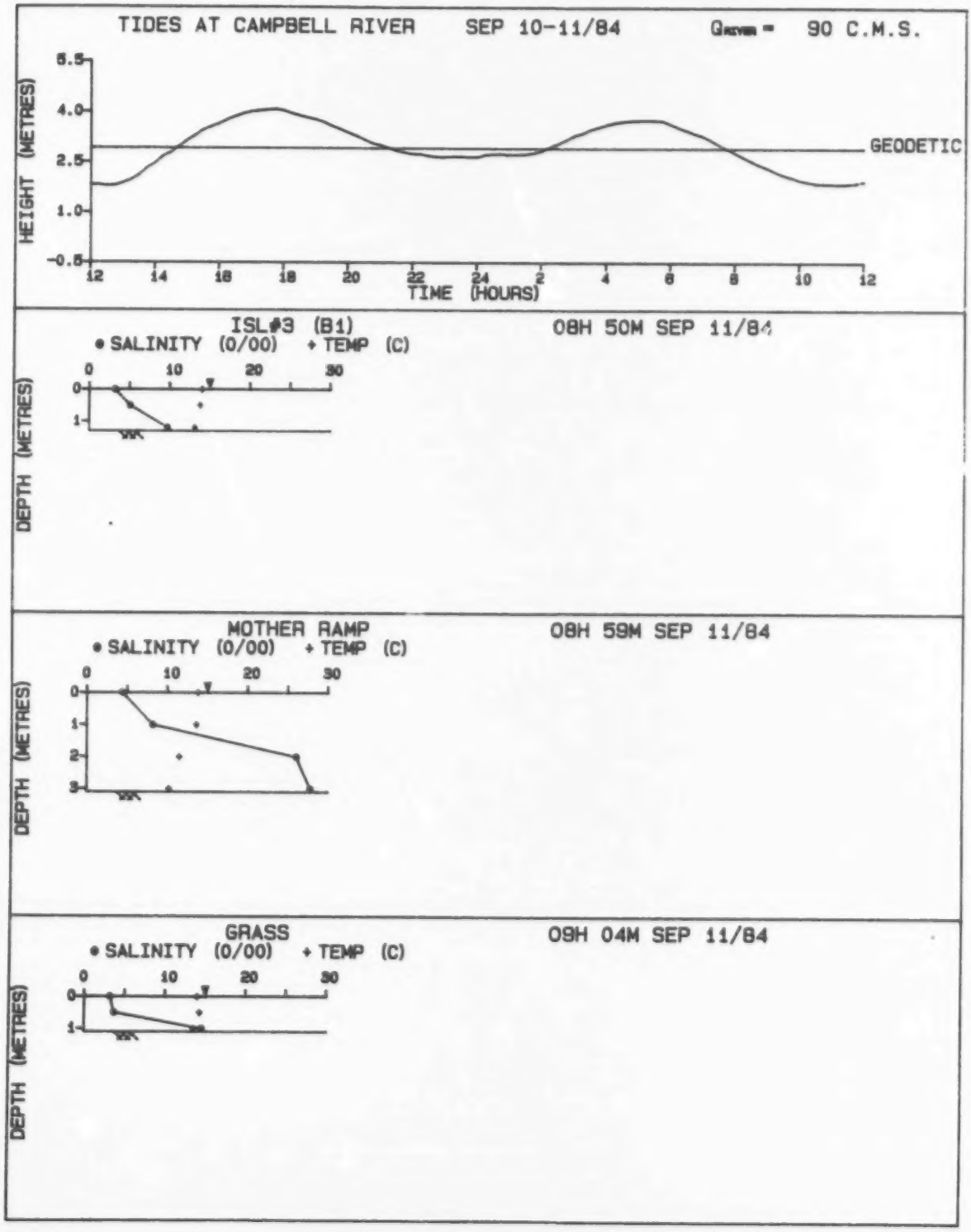
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



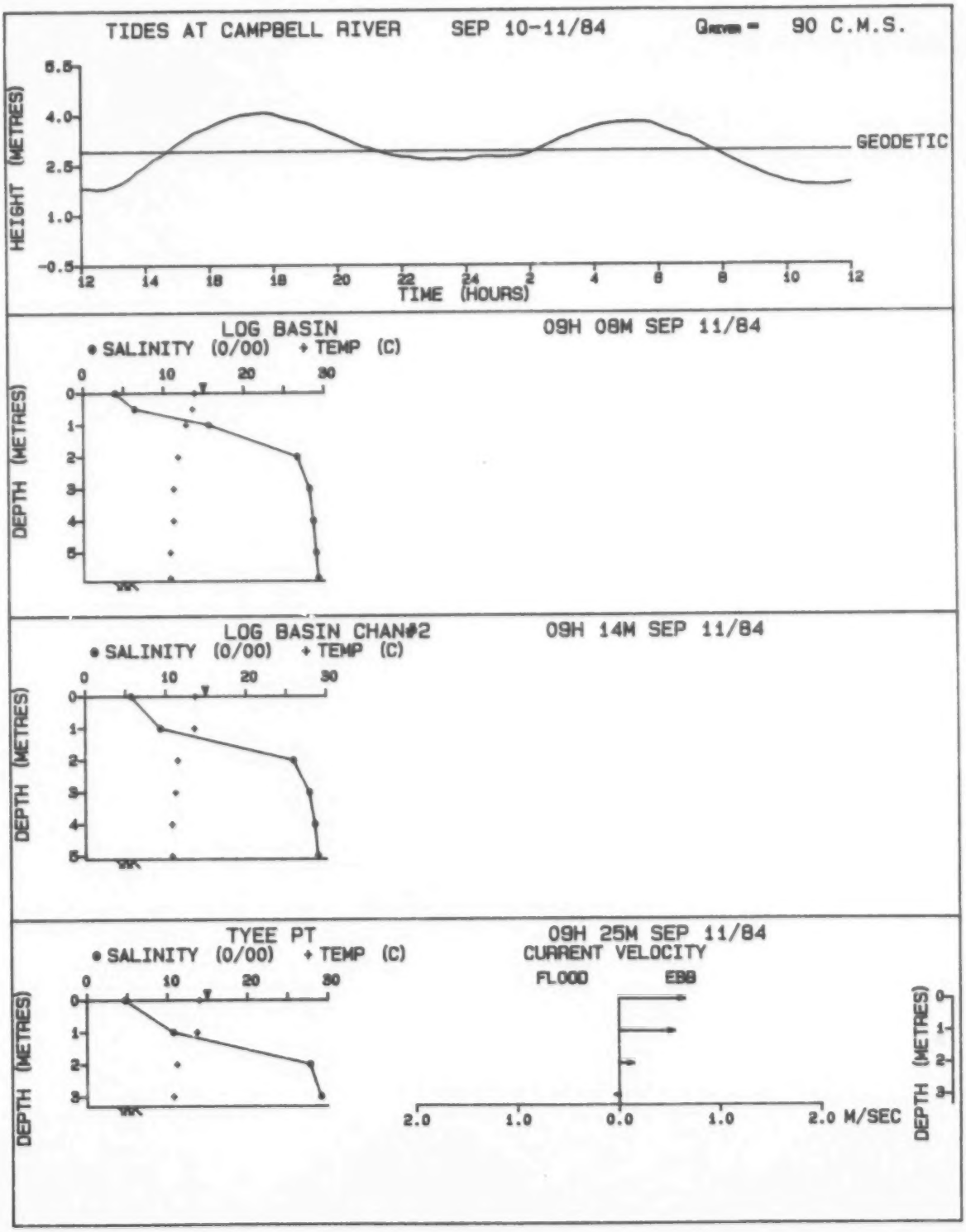
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



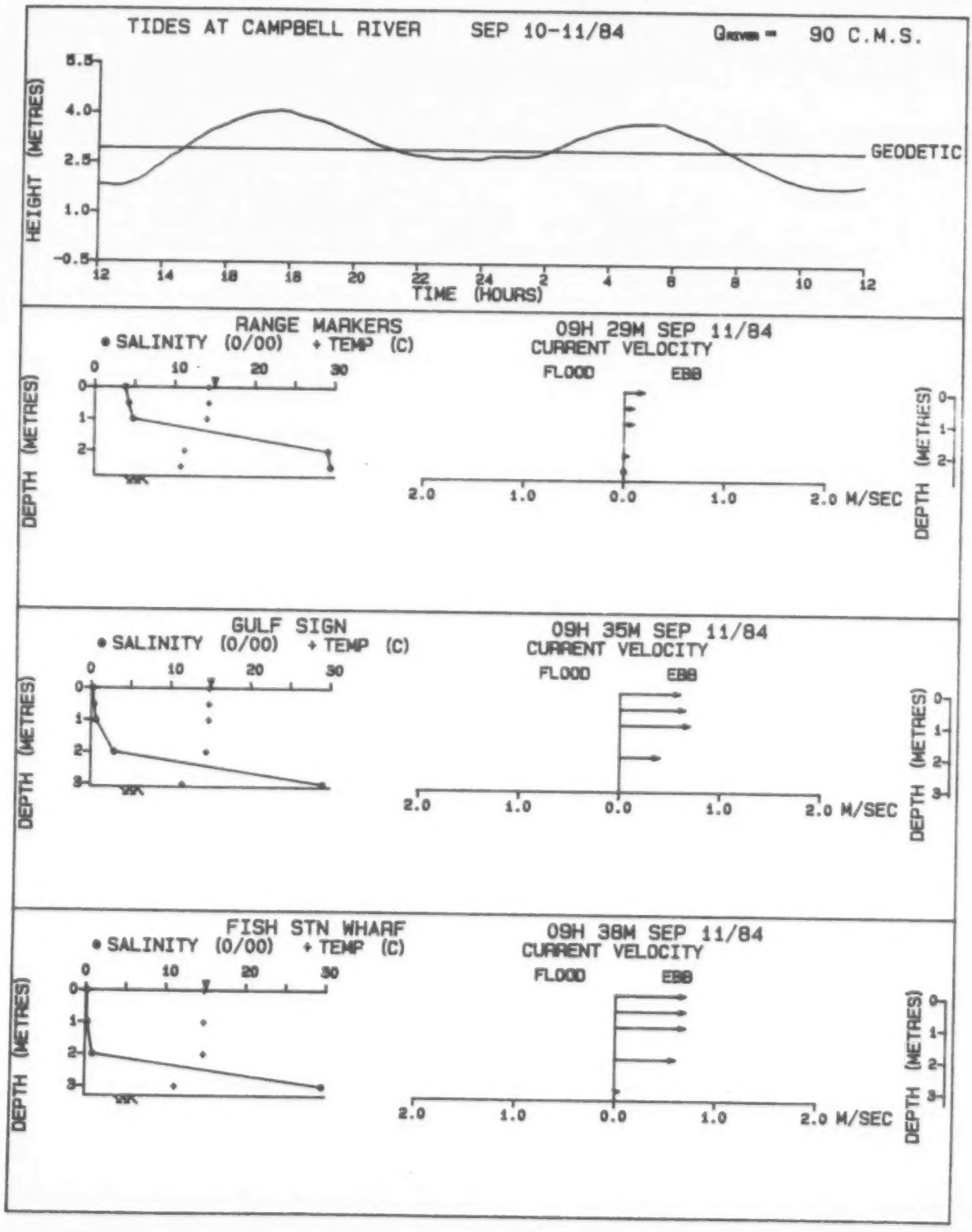
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



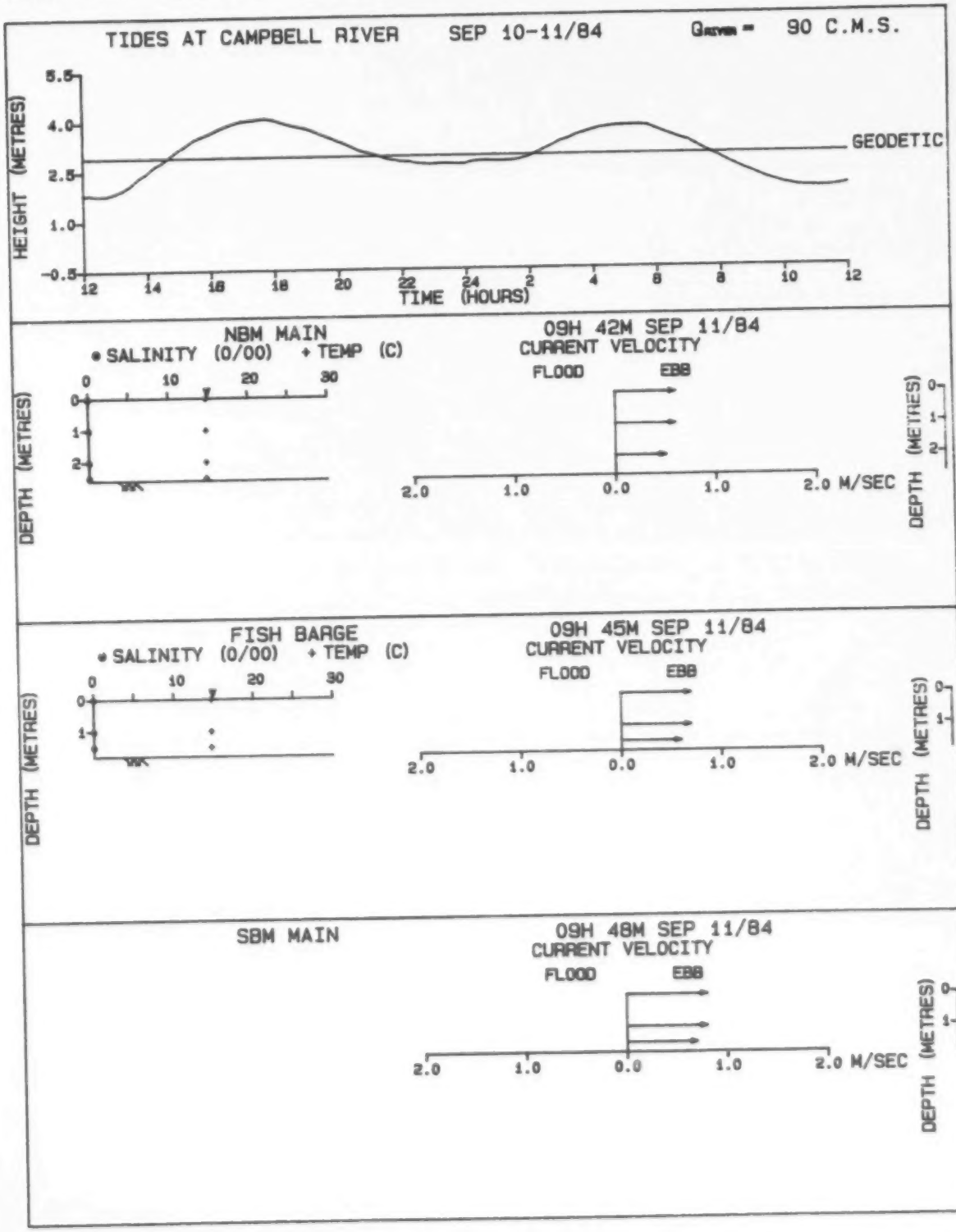
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



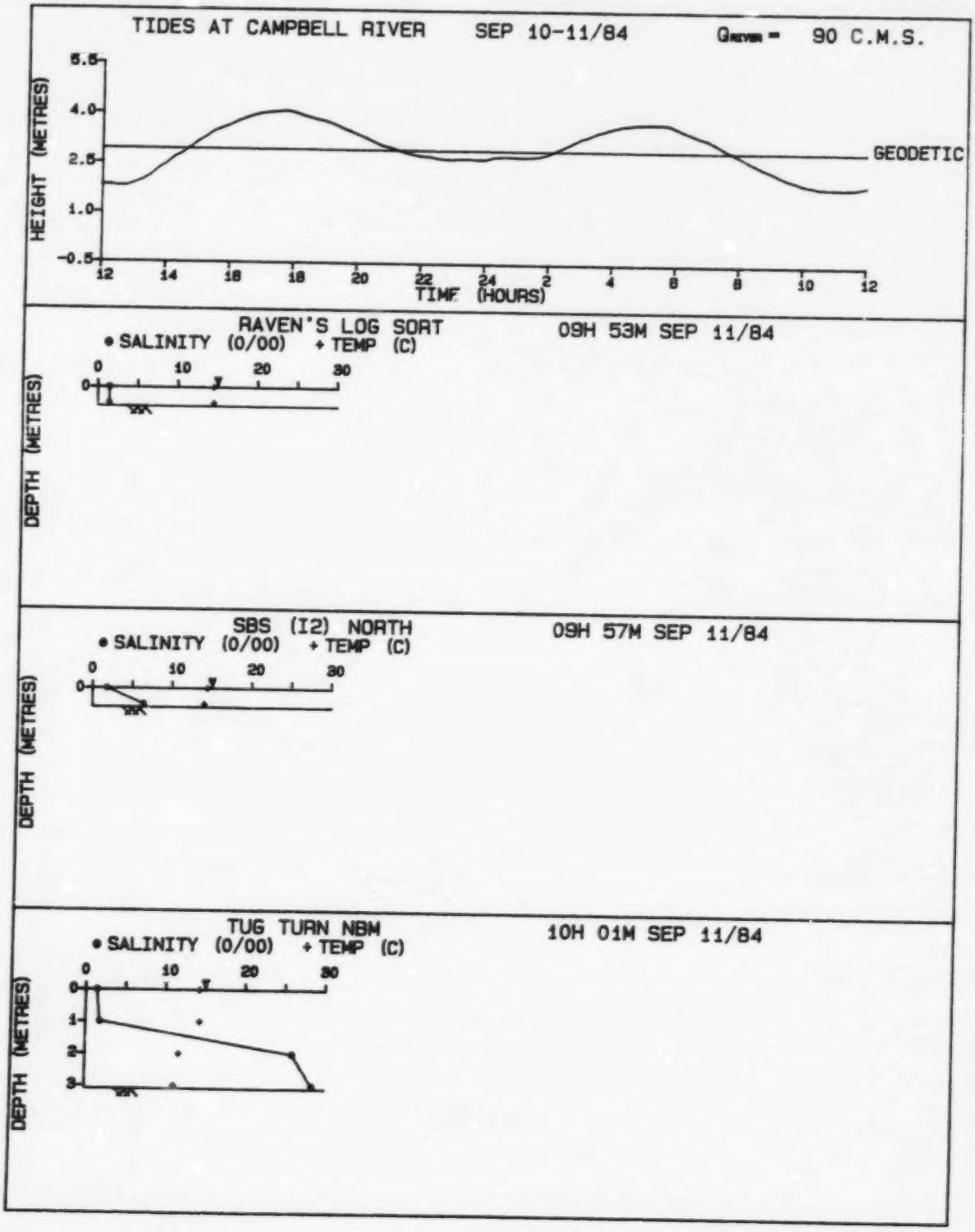
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



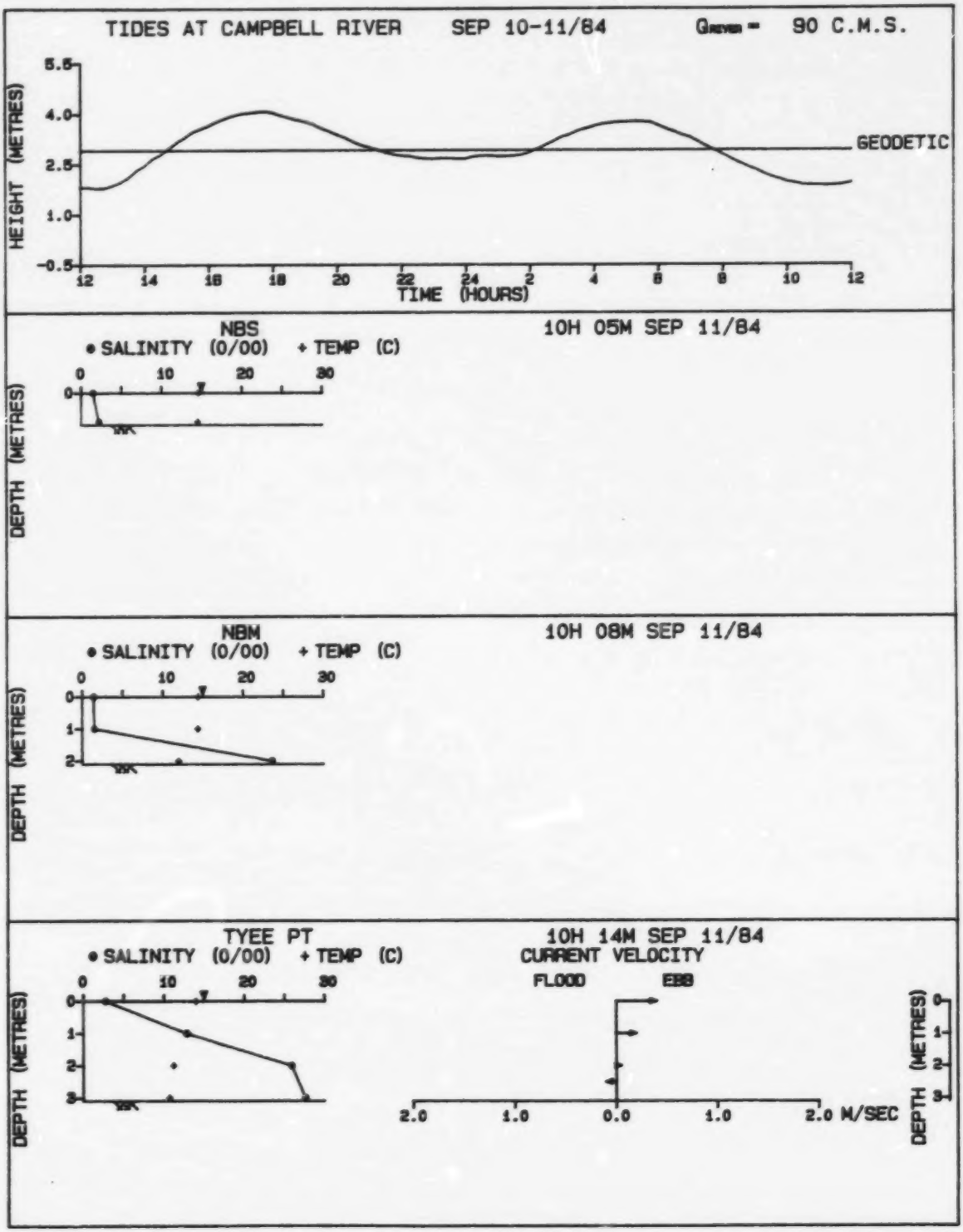
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



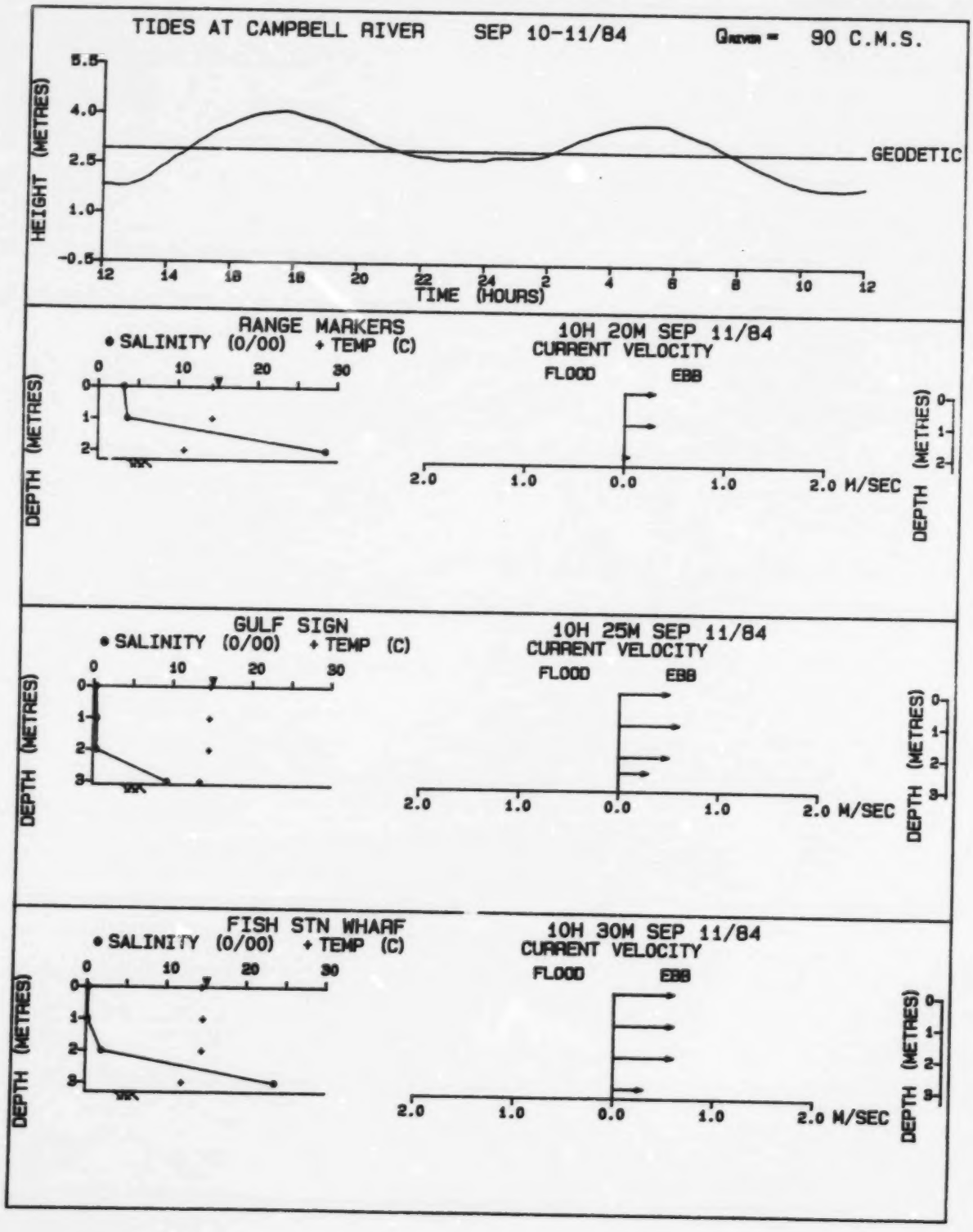
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



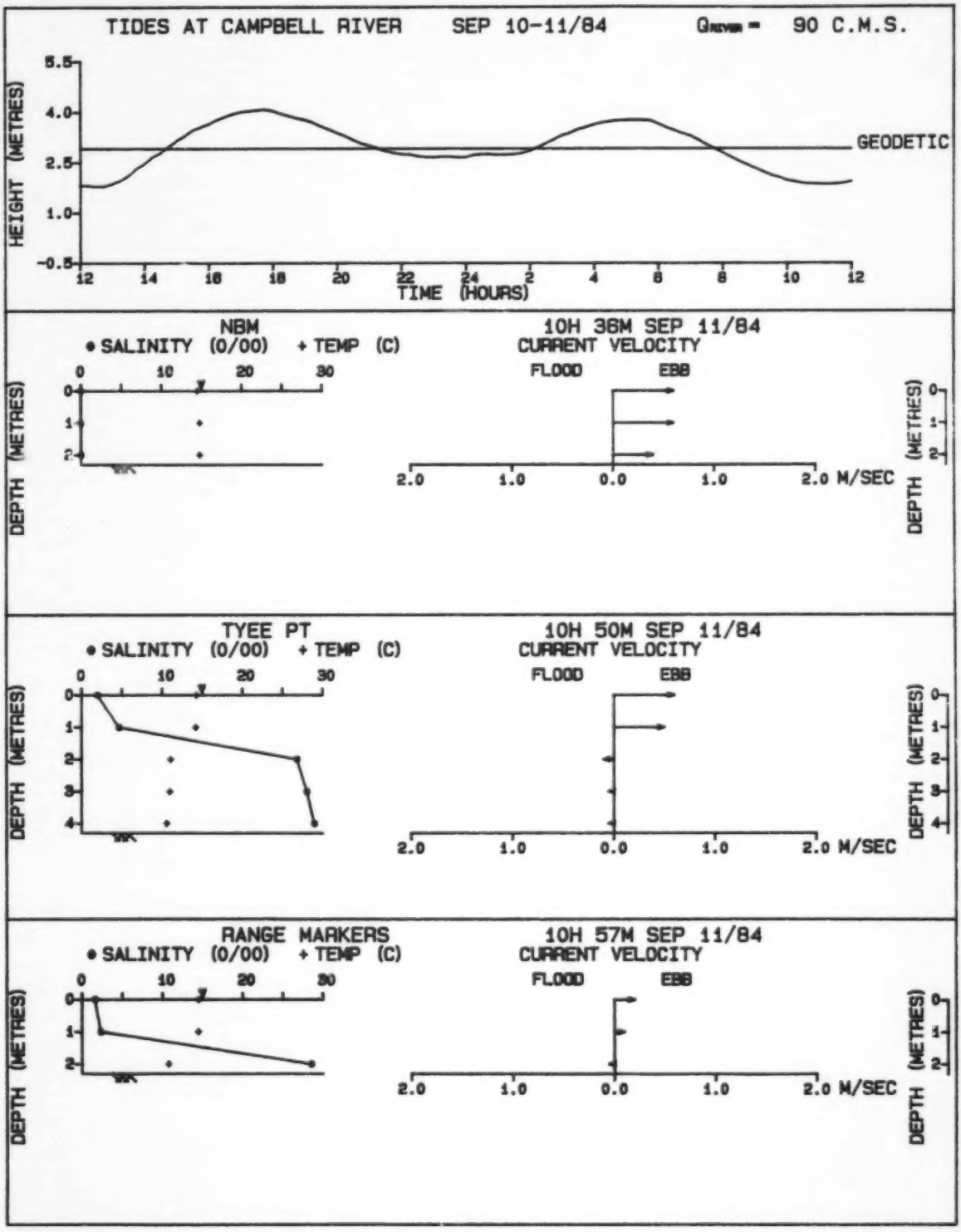
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



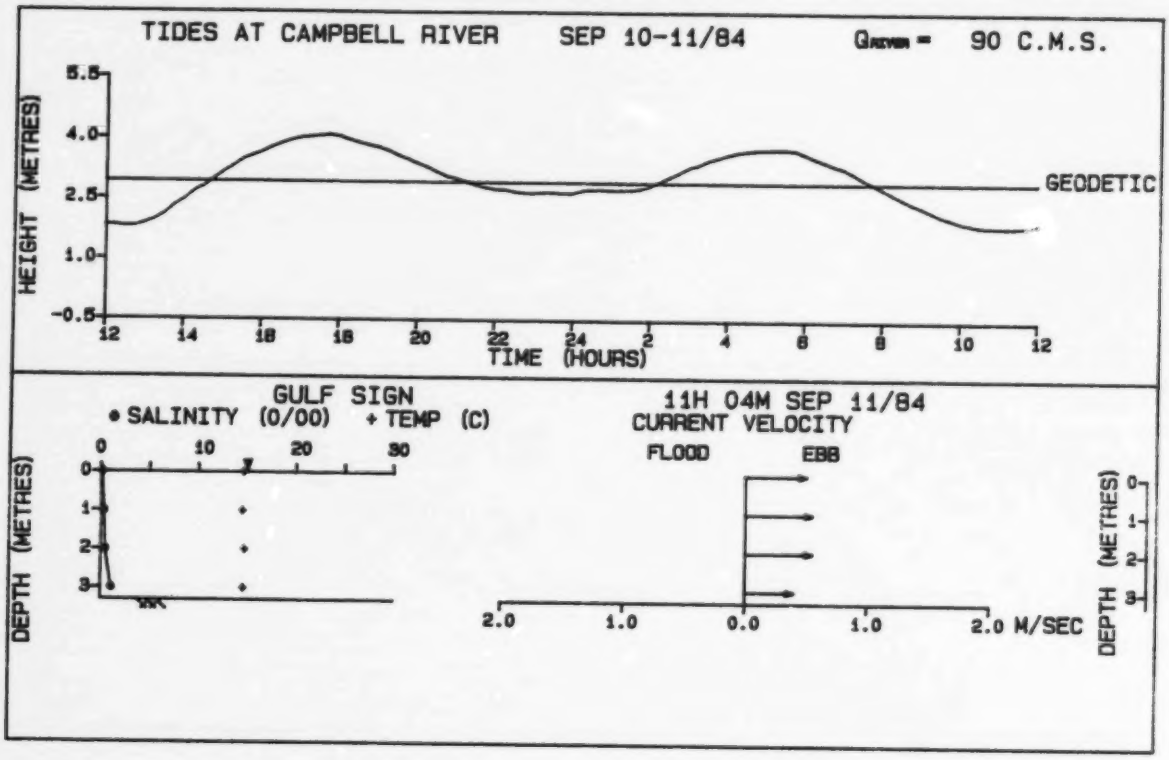
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	13H 40M	.0	12.8	13.5	.10	F
		.5			.20	F
		1.0	25.9	11.8	.20	F
		2.0	28.8	10.7	.25	F
		3.0	28.8	10.2	.20	F
RANGE MARKERS	13H 45M	.0	.4	14.8	.15	E
		1.0	28.8	11.0	.10	F
		2.0	29.0	10.2	.10	F
		2.5			.05	F
		3.0	29.2	10.0		
GULF SIGN	13H 49M	.0	.0	14.5	.20	E
		1.0	1.3	14.5	.20	E
		2.0	24.1	11.0	.25	F
		3.0	28.4	10.5	.35	F
FISH STN WHARF	13H 51M	.0	.0	14.4	.10	E
		1.0	.4	14.5	.05	E
		2.0	23.3	11.3	.25	F
		3.0	28.0	10.2	.40	F
		4.0	29.1	9.9	.35	F
NBM MAIN	13H 54M	.0	.1	14.4	.20	E
		1.0	.1	14.4	.25	E
		2.0	24.4	10.8	.25	F
		3.0	27.9	10.2	.15	F
FISH BARGE	13H 59M	.0	.0	14.2	.02	E
		1.0	.1	14.3	.10	E
		2.0	24.8	10.8	.20	F
SBM MAIN	14H 02M	.0	.0	14.0	.15	E
		1.0	.0	14.2	.20	E
		2.0	.0	14.2	.20	E
CHUTE SBM	14H 09M	.0	.1	14.2	.05	E
		1.0	.1	14.2	.08	E
		2.0	.1	14.2	.10	E
		3.0	.1	14.2	.00	

SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE SBM	14H 11M	.0	.0	14.2	.05	E
		1.0	.0	14.2	.10	E
		2.0	.1	14.2	.05	E
		2.5	6.7		.00	
		3.0	22.0		.04	F
CHUTE SBM	14H 21M	.0	.1	14.2	.26	E
		1.0	.2	14.2	.24	E
		2.0	4.1	14.2	.04	E
		2.5			.00	
		3.0	24.8	11.3	.02	F
		3.5	25.3	11.0	.05	F
CHUTE SBM	14H 31M	.0	.1	14.4	.08	E
		1.0	.2	14.4	.15	E
		1.5			.00	
		1.6			.00	
		1.7			.00	
		1.9			.02	F
		2.0	20.0		.04	F
		2.1			.00	
		2.2			.00	
		2.5			.00	
		3.0			.00	
CHUTE SBM	14H 36M	.0	.1	14.5		
		1.0	.1	14.5		
		1.5	.2	14.5		
		2.0	10.7	14.4		
		2.5	26.1	11.0		
		3.0	26.5	10.7		
		3.5	27.4	10.6		
CHUTE SBM	14H 41M	.0	.1	14.4	.38	E
		.5			.36	E
		1.0	.1	14.4	.34	E
		1.5			.28	E
		1.9	5.4			
		2.0	13.5		.01	E
		2.5	26.1		.00	
		3.0	26.5	10.8	.00	
		3.5	26.7	10.7	.00	
		3.9	26.7			

SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE SBM	14H 54M	.0	.1	14.2	.40	E
		1.0	.4	14.2	.36	E
		1.5			.28	E
		1.8			.10	E
		1.9	10.7			
		2.0	12.1		.00	
		2.5			.00	
		3.0	26.7		.00	
		3.5			.00	
		4.0	27.3	10.6		
CHUTE SBM	15H 01M	.0	.2	14.2	.30	E
		1.0	.6	13.8	.28	E
		1.5	1.8		.18	E
		1.6	4.0			
		1.7	6.7			
		1.8	8.7			
		1.9	13.5		.00	
		2.0	22.9		.02	F
		2.5			.00	
		3.0	27.1		.00	
		3.5			.00	
		3.9	27.6			
CHUTE SBM	15H 11M	.0	.2	14.2	.30	E
		.5	.3	14.2		
		.7	.4			
		.9	.4			
		1.0	.5		.22	E
		1.5	3.5		.10	E
		1.8	12.8			
		1.9			.10	F
		2.0	25.5		.10	F
		2.5	27.3	10.6	.10	F
		3.0	27.4	10.5	.00	
		3.5	27.4		.00	
		4.0	27.7		.00	
CHUTE SBM	15H 21M	.0	.2	14.2	.36	E
		1.0	.6	14.2	.28	E
		1.5	6.7	.0	.26	E
		2.0	25.2	11.5	.01	F
		2.2			.00	
		2.5	27.0	10.8	.00	
		3.0	27.7	10.5	.00	
		3.5			.00	

SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE SBM	15H 21M	4.0	28.4	10.3		
CHUTE SBM	15H 26M	.0	.3	14.0	.37	E
		1.0	1.4		.37	E
		1.5	6.0		.26	E
		2.0	26.7	11.0	.00	
		2.6	27.8	10.5	.00	
		2.9	27.8	10.5		
CHUTE SBM	15H 31M	.0	.2	14.0	.46	E
		1.0	.8	13.9	.38	E
		1.5	4.1	13.6	.35	E
		2.0	22.9		.02	E
		2.5	27.4	10.6	.00	
		3.0	27.7	10.5	.00	
		3.5	27.8	10.4	.00	
		4.0	28.0	10.3	.00	
CHUTE SBM	15H 41M	.0	.4	14.0	.34	E
		1.0	1.1	13.8	.28	E
		1.5	3.8	13.5	.28	E
		2.0	25.9	10.6	.00	
		2.5	27.7	10.5	.00	
		3.0	27.9	10.4	.00	
		3.5	28.0		.00	
		4.0	28.0			
CHUTE SBM	15H 51M	.0	.6	13.8	.42	E
		1.0	.9	13.8	.28	E
		1.5	5.4		.28	E
		2.0	20.0	12.0	.00	
		2.5	27.6	10.6	.00	
		3.0	27.9	10.5	.00	
		4.0	28.2	10.3	.00	
CHUTE SBM	16H 01M	.0	.6	14.0	.34	E
		.5			.32	E
		1.0	1.1	13.6	.28	E
		1.5	4.0	13.5	.24	E
		2.0	20.7	12.4	.00	
		2.5	27.6	10.6	.00	
		3.0	28.0	10.4	.02	F
		3.5	28.3	10.3	.04	F
		4.0	28.3	10.2	.04	F

SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
CHUTE SBM	16H 11M	.0	.7	14.2	.20	E
		.5			.20	E
		1.0	1.1	14.2.	.20	E
		1.5	4.1	13.8	.00	
		2.0	26.7	11.3	.04	E
		2.5	28.0	10.6	.02	E
		3.0	28.0	10.5	.02	E
		3.5			.00	
		4.0	28.2	10.4		
CHUTE SBM	16H 21M	.0	.8	14.0	.30	E
		.5	.9	14.0	.30	E
		1.0	1.2	14.0	.20	E
		1.5	3.2	13.9	.15	E
		2.0	9.4	13.0	.10	E
		2.5	27.6	10.7	.00	
		3.0	28.2	10.5	.00	
		4.0	28.4	10.4	.00	
CHUTE SBM	16H 31M	.0	.6	13.6	.44	E
		.5	.8	13.6	.44	E
		1.0	1.2	13.7	.34	E
		1.5	4.4	13.5	.25	E
		2.0	12.2	13.2	.00	
		2.5	24.9	11.0	.00	
		3.0	28.3	10.6	.00	
		4.0	28.4	10.3	.00	
CHUTE SBM	16H 41M	.0	.8	13.5	.32	E
		.5	1.0	13.5	.33	E
		1.0	1.0	13.5	.28	E
		1.5	4.1	12.5	.24	E
		2.0	25.2	11.0	.00	
		2.5	27.3	10.7	.00	
		3.0	28.0	10.4	.00	
		4.0	28.5	10.2	.00	
CHUTE SBM	16H 51M	.0	.6	14.0	.40	E
		.5	.8	14.0	.40	E
		1.0	1.5	13.7	.33	E
		1.5	4.1	13.7	.30	E
		2.0	10.0	12.8	.08	E
		2.5	27.8	10.7	.00	
		3.0	28.0	10.4	.00	
		4.0	28.6	10.3	.00	

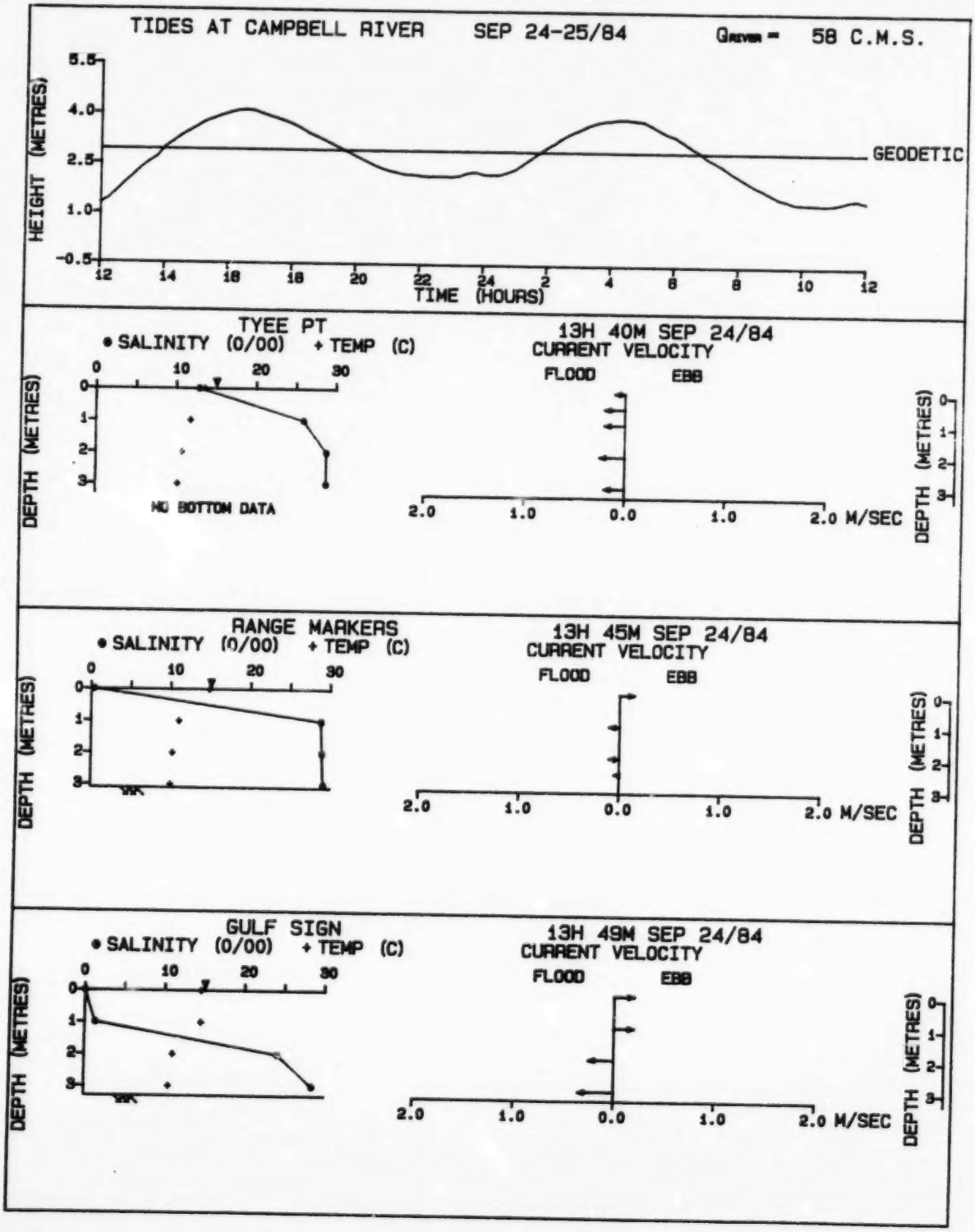
SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	17H 03M	.0	8.0	13.2	.40	E
		1.0	27.4	10.5	.16	E
		2.0	29.0	9.9	.14	E
		3.0	29.4	9.7	.04	E
		4.0	29.7	9.7	.06	E
		5.0	29.7	9.7	.05	E
RANGE MARKERS	17H 13M	.0	2.9	14.0	.43	E
		1.0	16.0	12.4	.04	E
		2.0	28.9	10.0	.02	E
		3.0	29.0	10.0	.00	
		4.0	29.2	9.7		
GULF SIGN	17H 25M	.0	2.0	13.9	.48	E
		1.0	16.0	12.0	.04	E
		2.0	28.3	10.2	.00	
		3.0	29.2	10.0	.00	
		4.0	29.3	9.6	.00	
		4.5	29.3	9.6		
FISH STN WHARF	17H 30M	.0	1.6	13.9	.68	E
		1.0	8.8	13.9	.52	E
		2.0	27.4	10.5	.00	
		3.0	29.0	9.8	.00	
		4.0	29.3	9.8		
		5.0	29.4	9.5		
NBM MAIN	17H 35M	.0	.6	13.6	.54	E
		1.0	2.9	13.8	.58	E
		2.0	23.7	11.4	.06	E
		3.0	28.8	10.0	.03	F
		4.0	29.0	9.7	.00	
FISH BARGE	17H 39M	.0	.9	13.9	.44	E
		1.0	2.0	14.0	.44	E
		2.0	20.7	12.4	.06	E
		3.0	28.5	10.2	.02	F
SBM MAIN	17H 42M	.0	.1	14.0	.30	E
		1.0	.8	14.0	.40	E
		2.0	7.4	13.2	.15	E
		3.0	27.8	10.5	.06	F

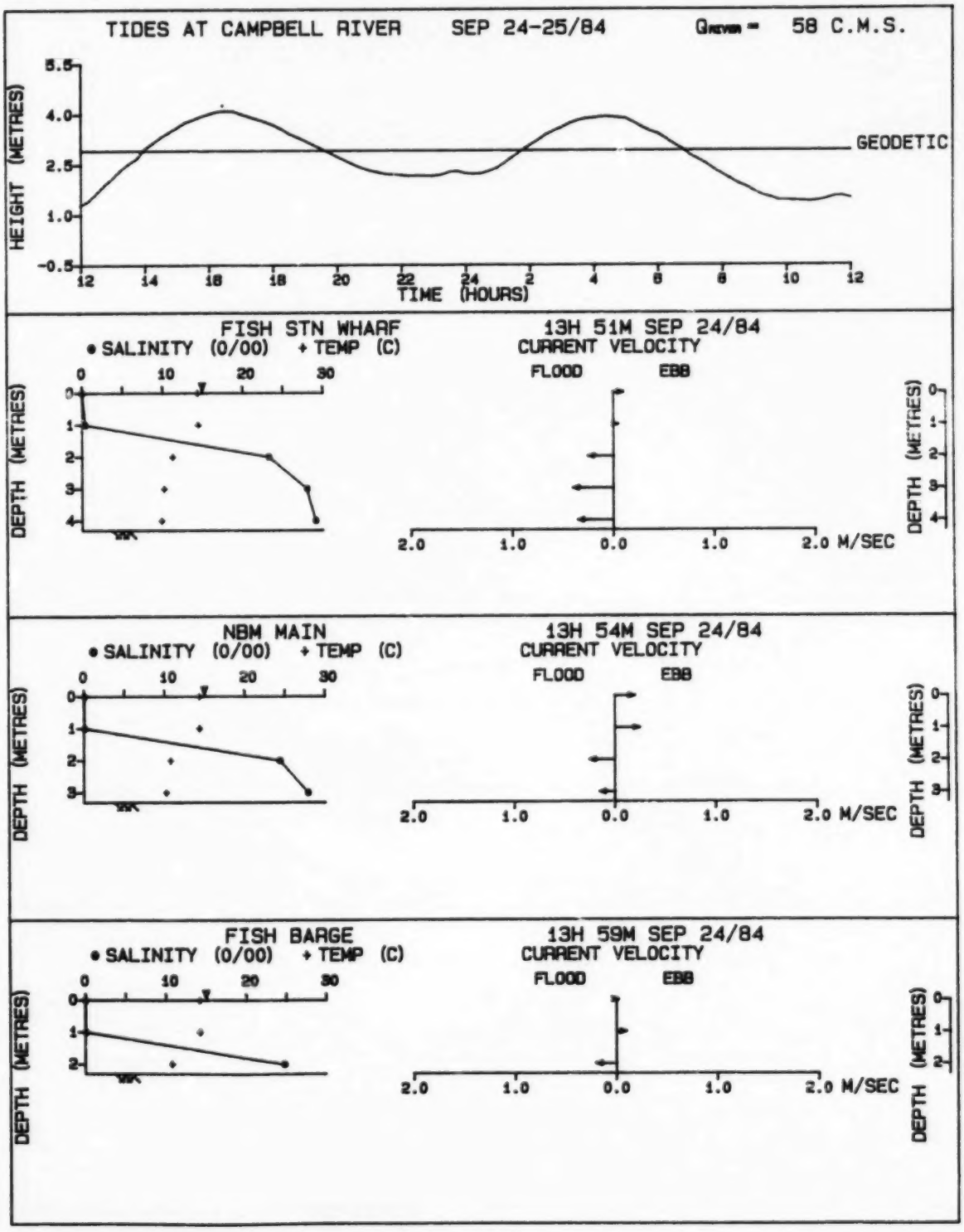
SEP 24/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FRED'S MAIN	17H 46M	.0	.1	14.0	.42	E
		1.0	.4	14.1	.48	E
		2.0	10.0	13.0	.30	E
		3.0	27.7	10.5	.00	
TOP TAG MAIN	17H 49M	.0	.1	14.0	.38	E
		1.0	.2	14.3	.42	E
		2.0	7.7	13.2	.40	E
		2.5	24.4	11.0	.02	E
ORANGE CRANE	17H 52M	.0	.0	14.0	.54	E
		1.0	.1	14.2	.56	E
		2.0	1.4	13.5	.45	E
		2.5			.10	E
		3.0	28.2	10.6		
PILE BREAKWATER	17H 55M	.0	.0	13.7	.70	E
		1.0	.1	13.9	.68	E
		2.0	.2	13.5	.66	E
		3.0	24.4	10.7	.04	E
		4.0	27.4	10.5	.04	E
		5.0	27.6	10.4		
PRIV. FLOAT (M1)	17H 59M	.0	.0			
		2.5	.0			
CHUTE SBM	18H 05M	.0	.6	13.8	.52	E
		.5	.7	13.9	.53	E
		1.0	1.1	13.8	.50	E
		1.5	2.0	13.8	.40	E
		2.0	8.7	12.2	.36	E
		2.5	27.6	11.0	.00	
		3.0	28.2	10.4	.00	
		3.5	28.2	10.4	.00	
		4.0	28.2	10.3	.00	

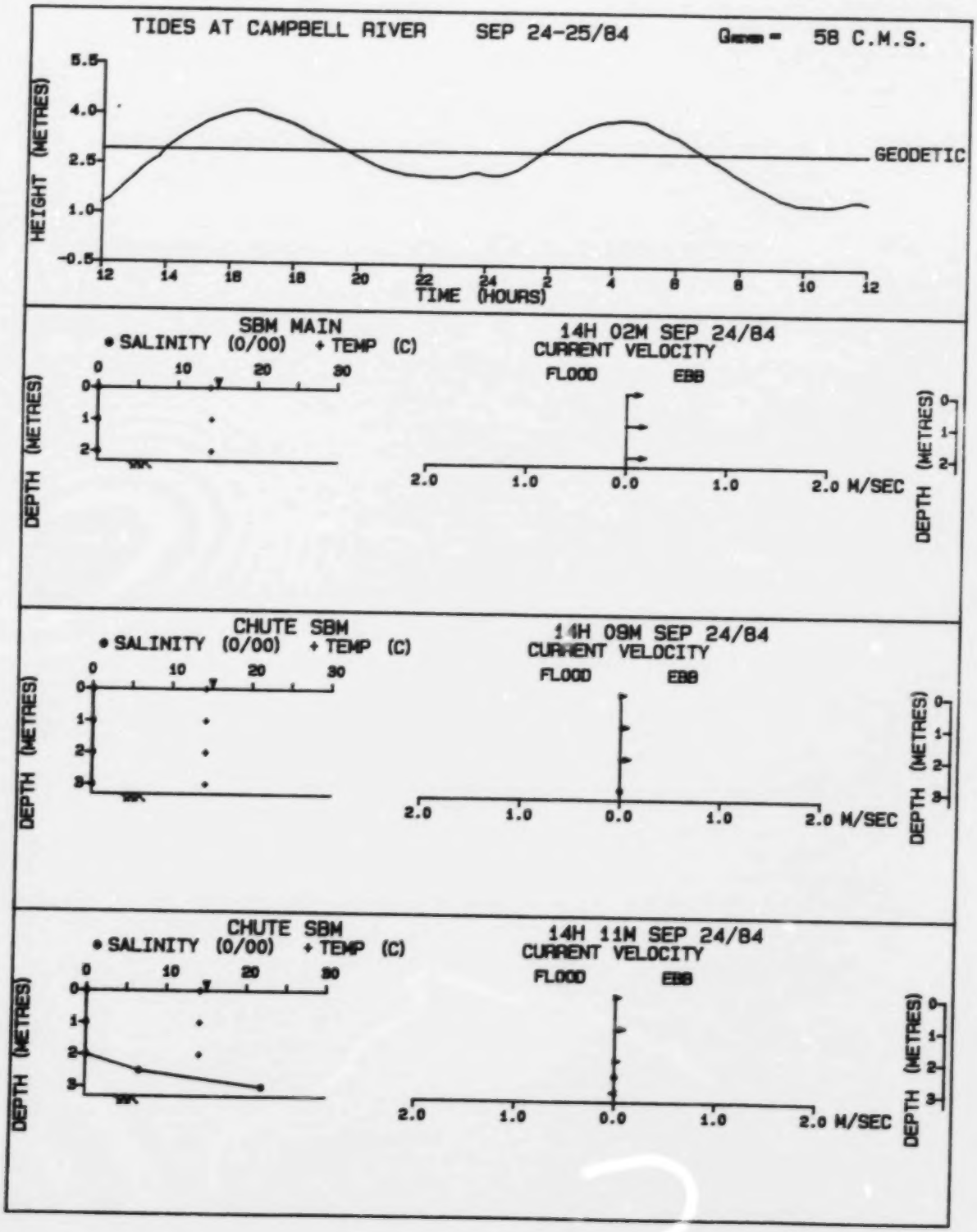
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



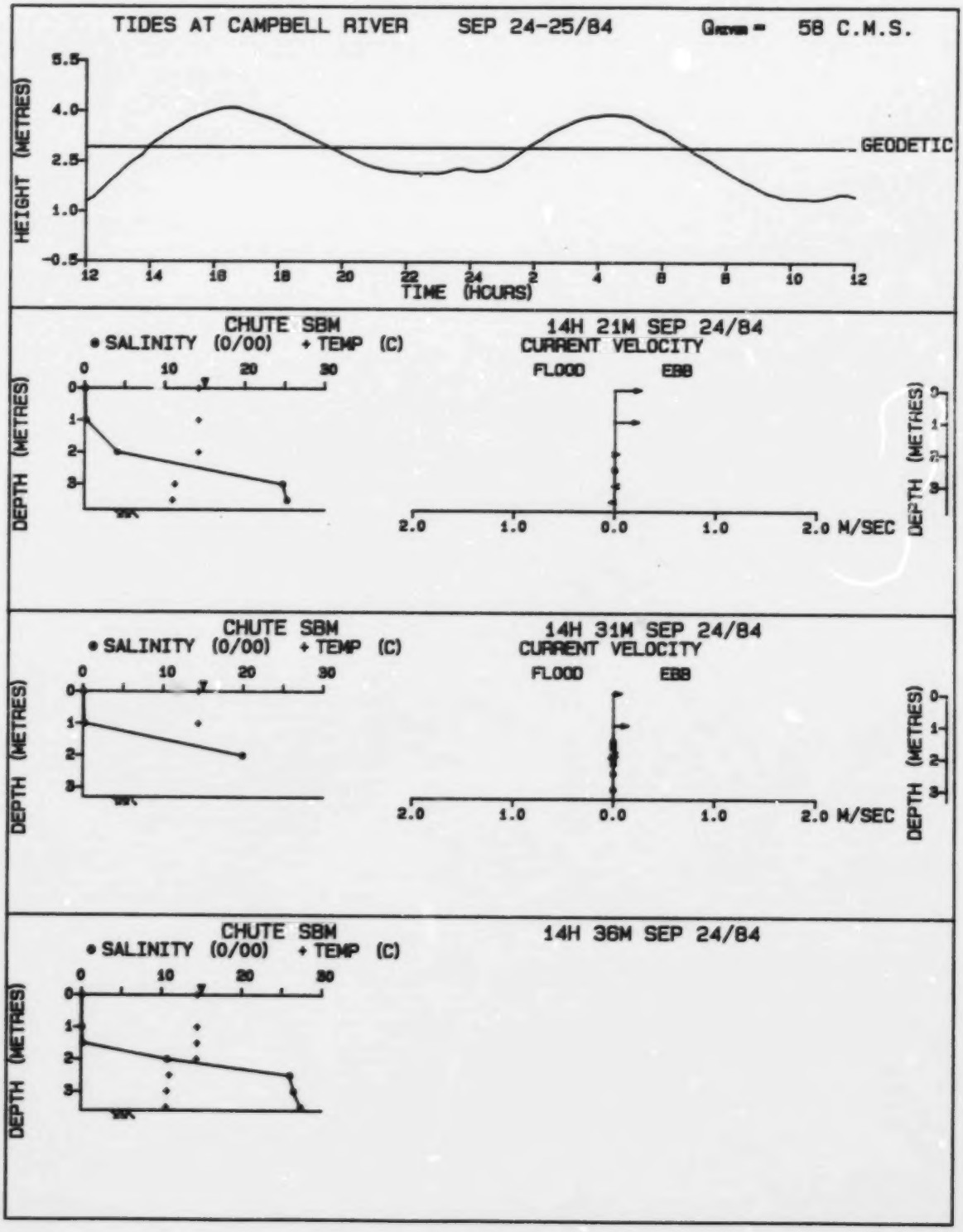
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



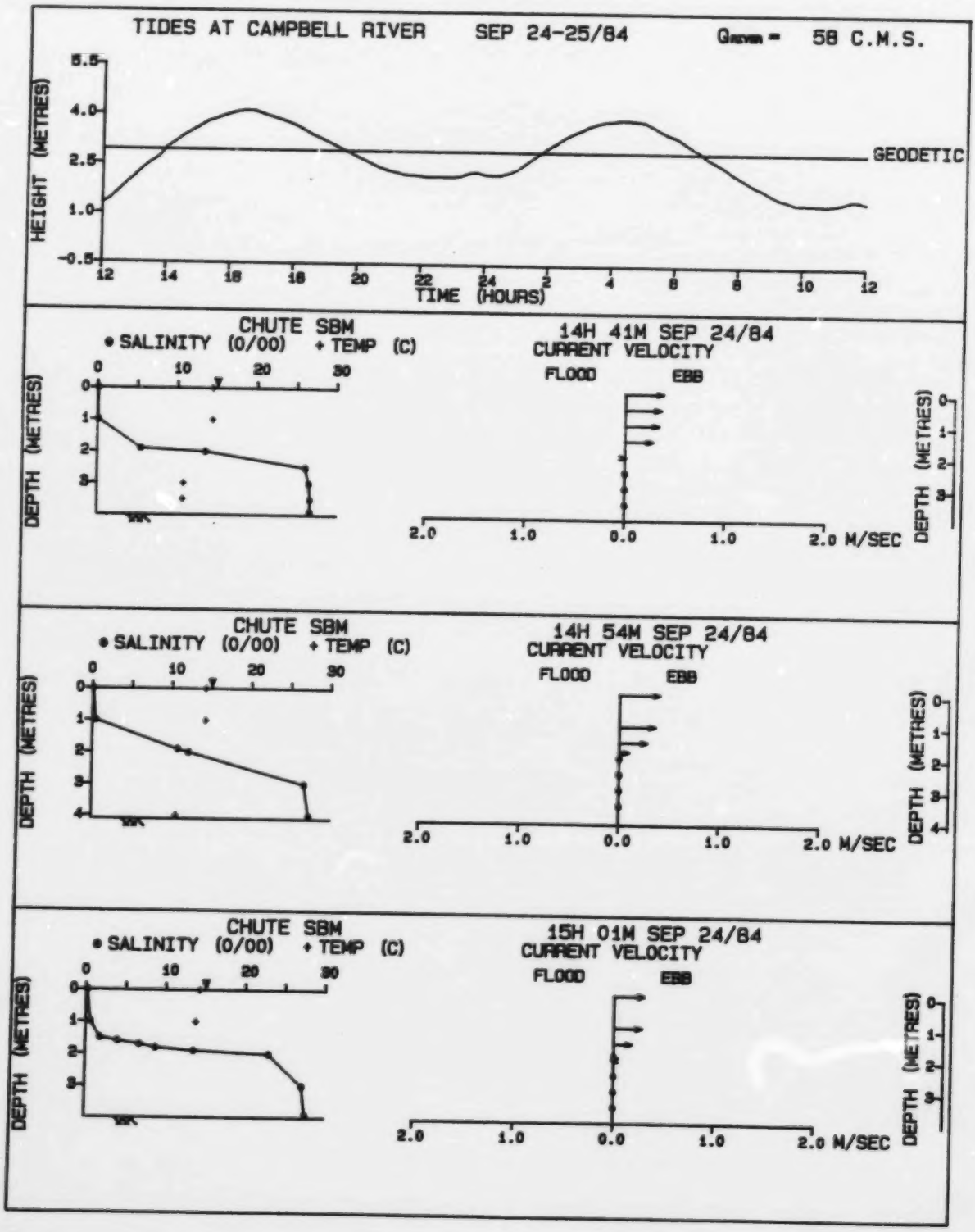
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



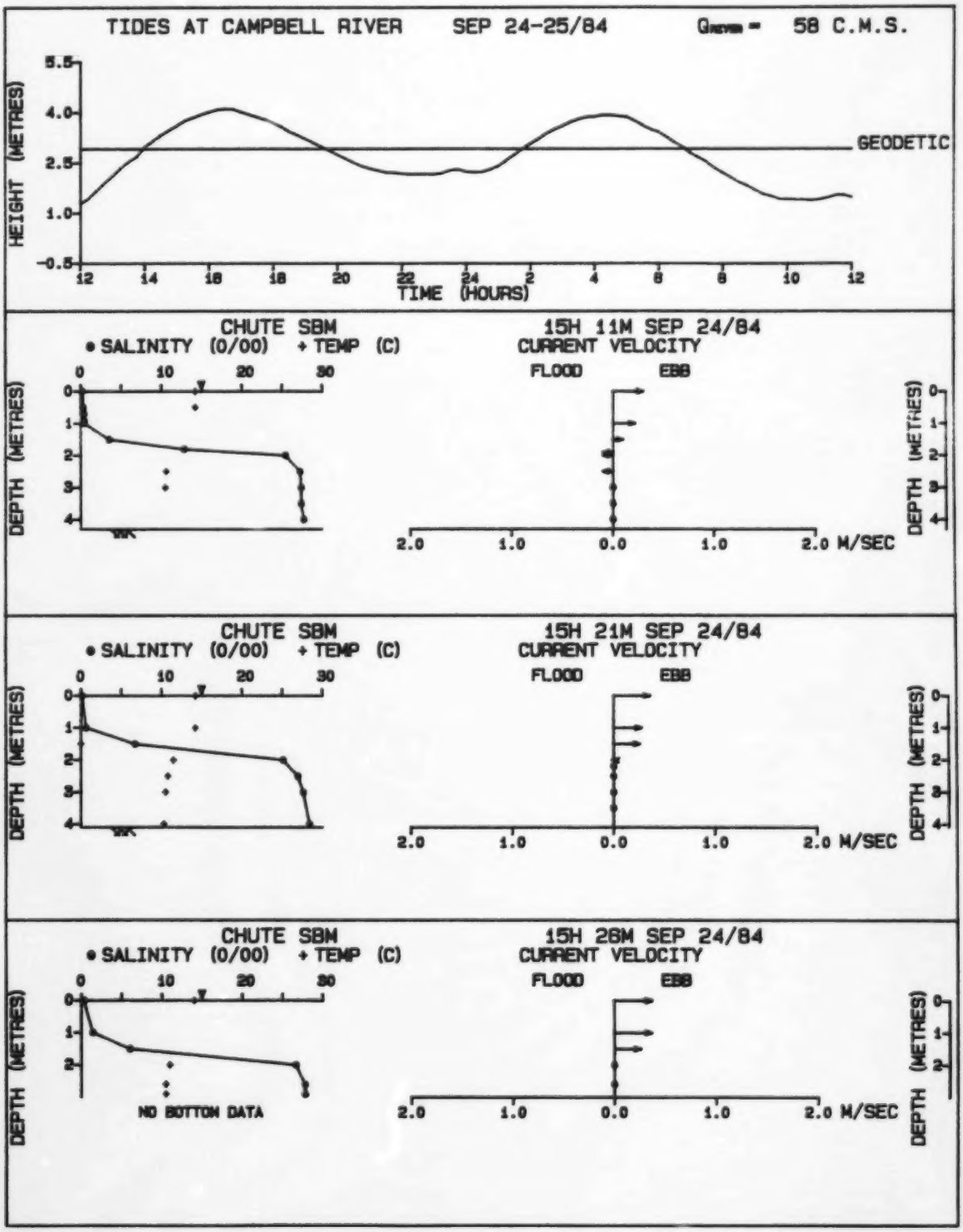
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



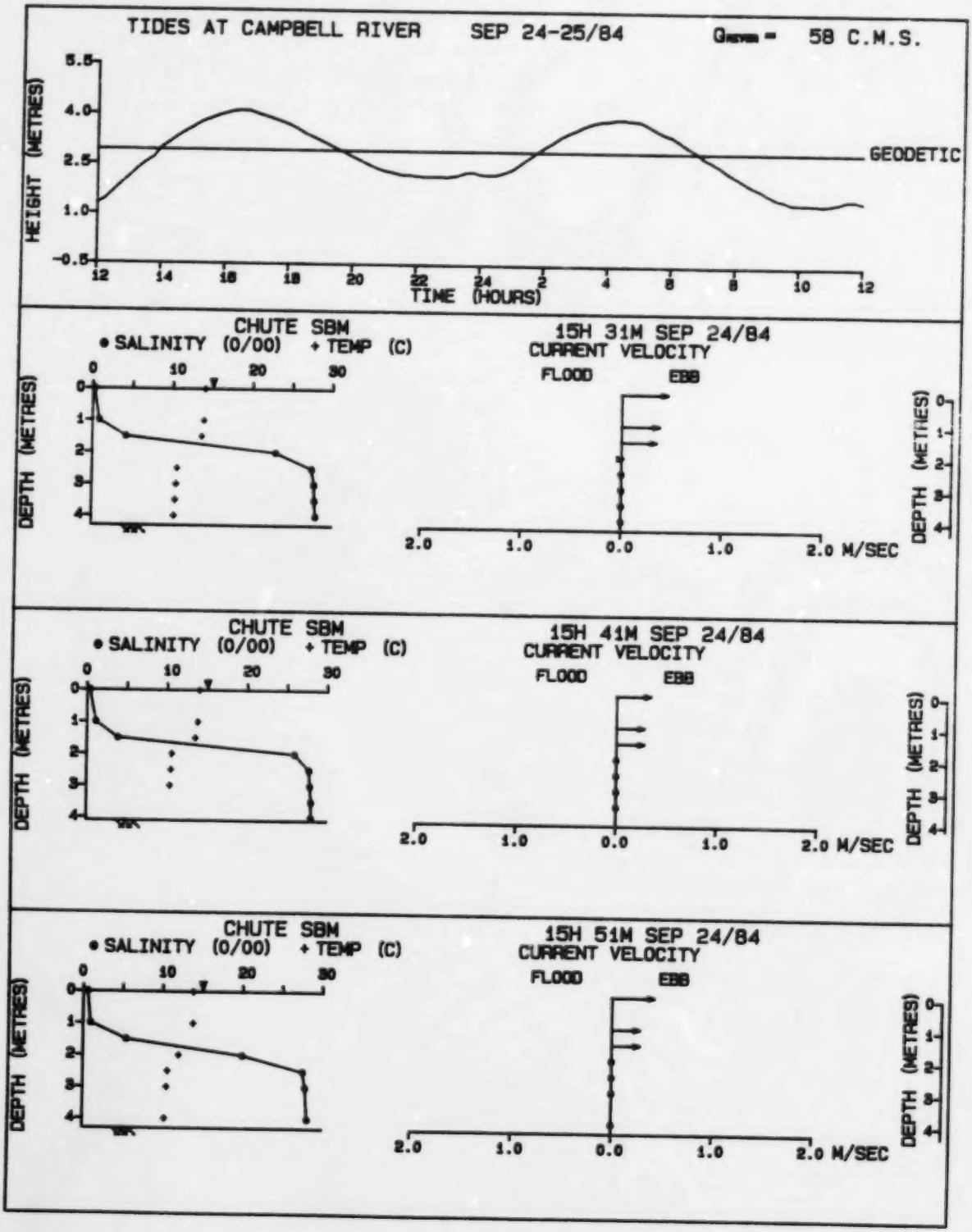
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



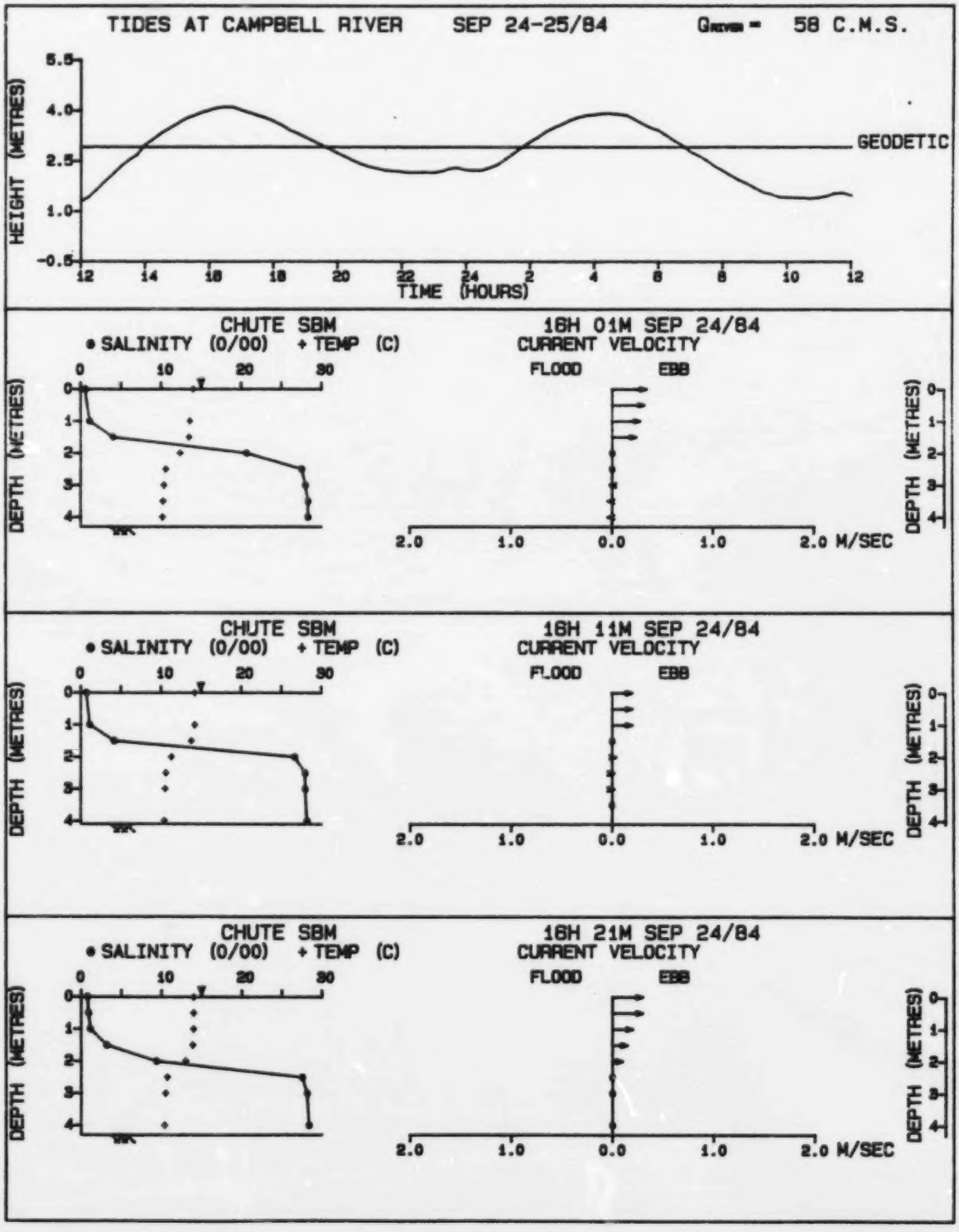
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



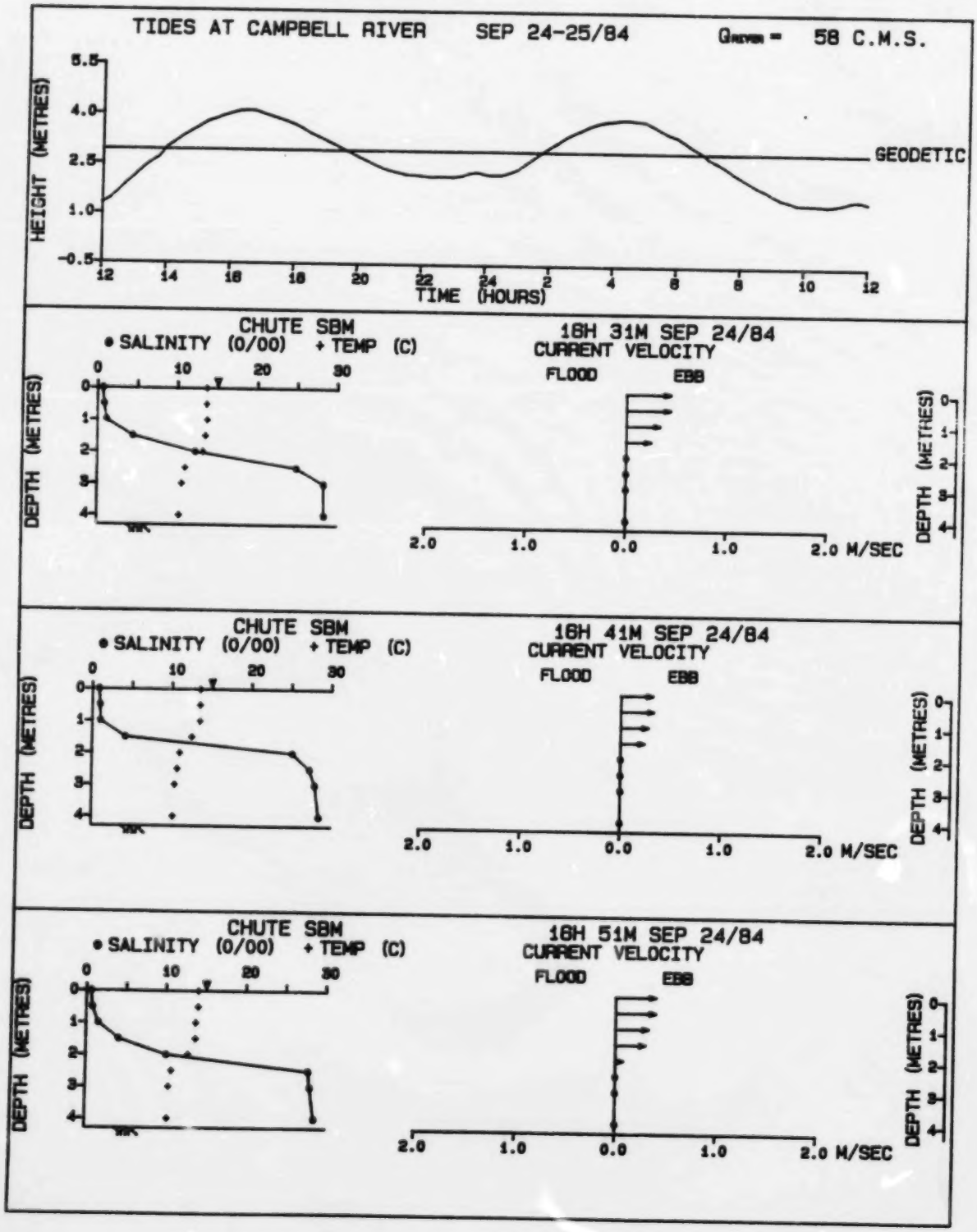
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



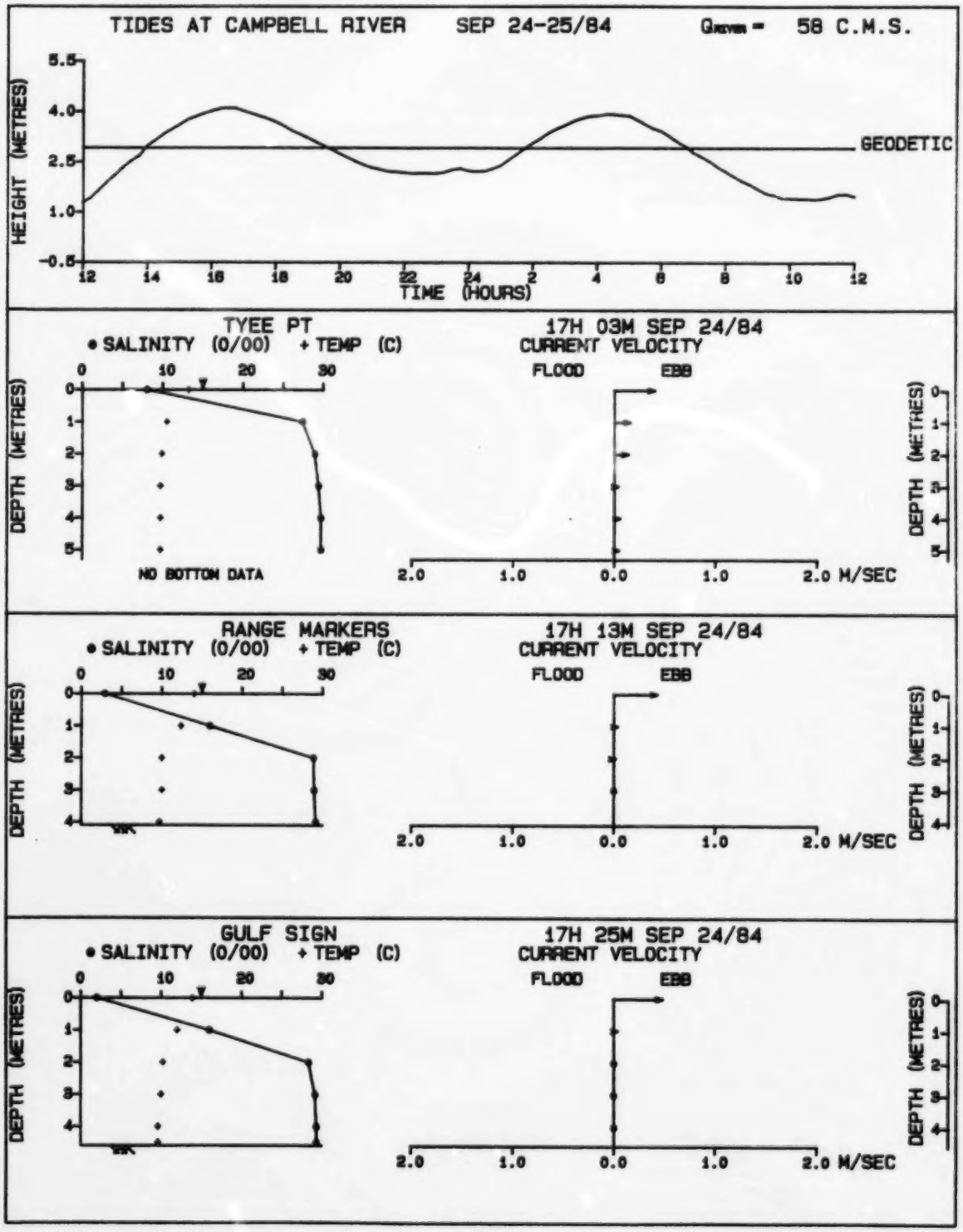
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



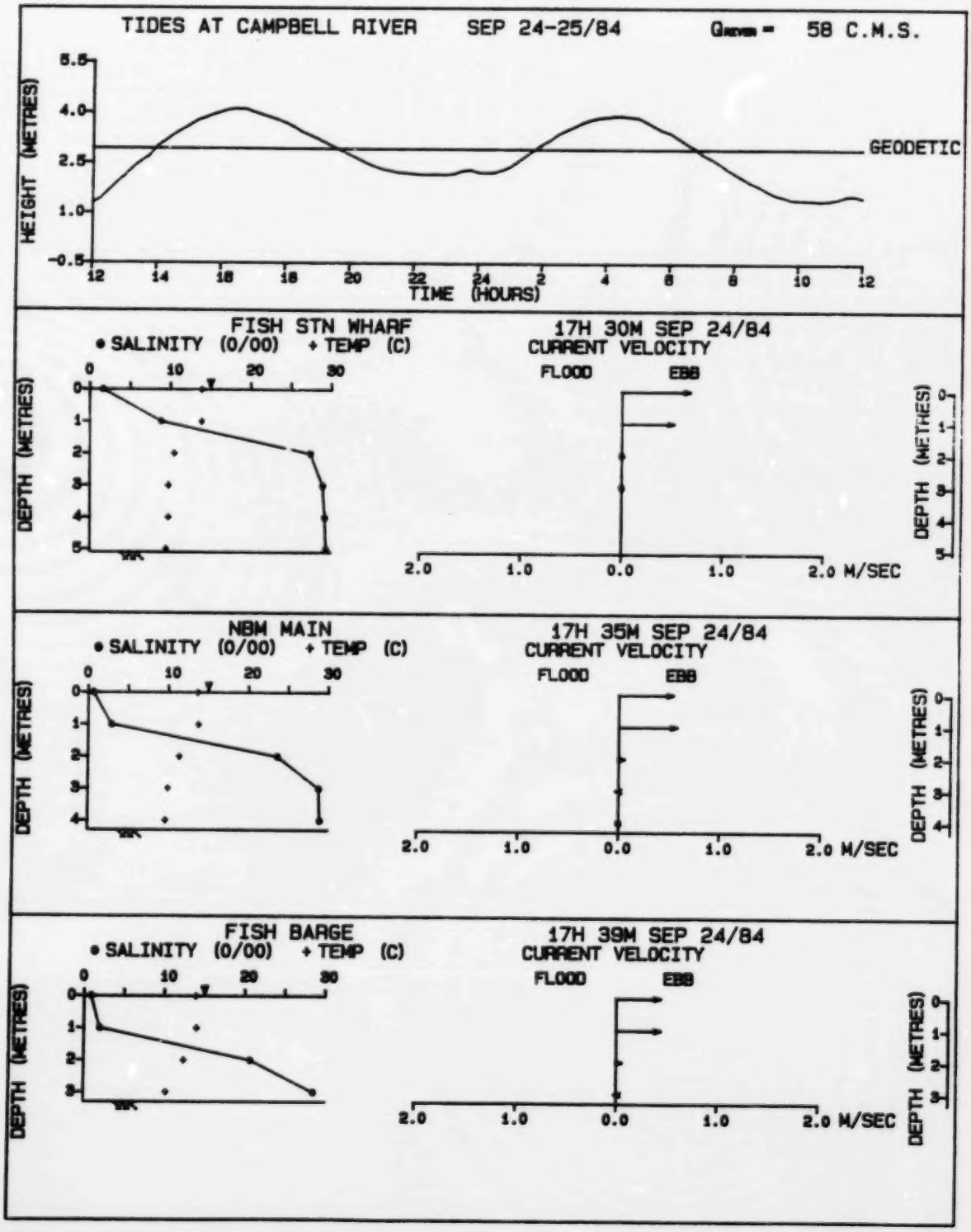
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



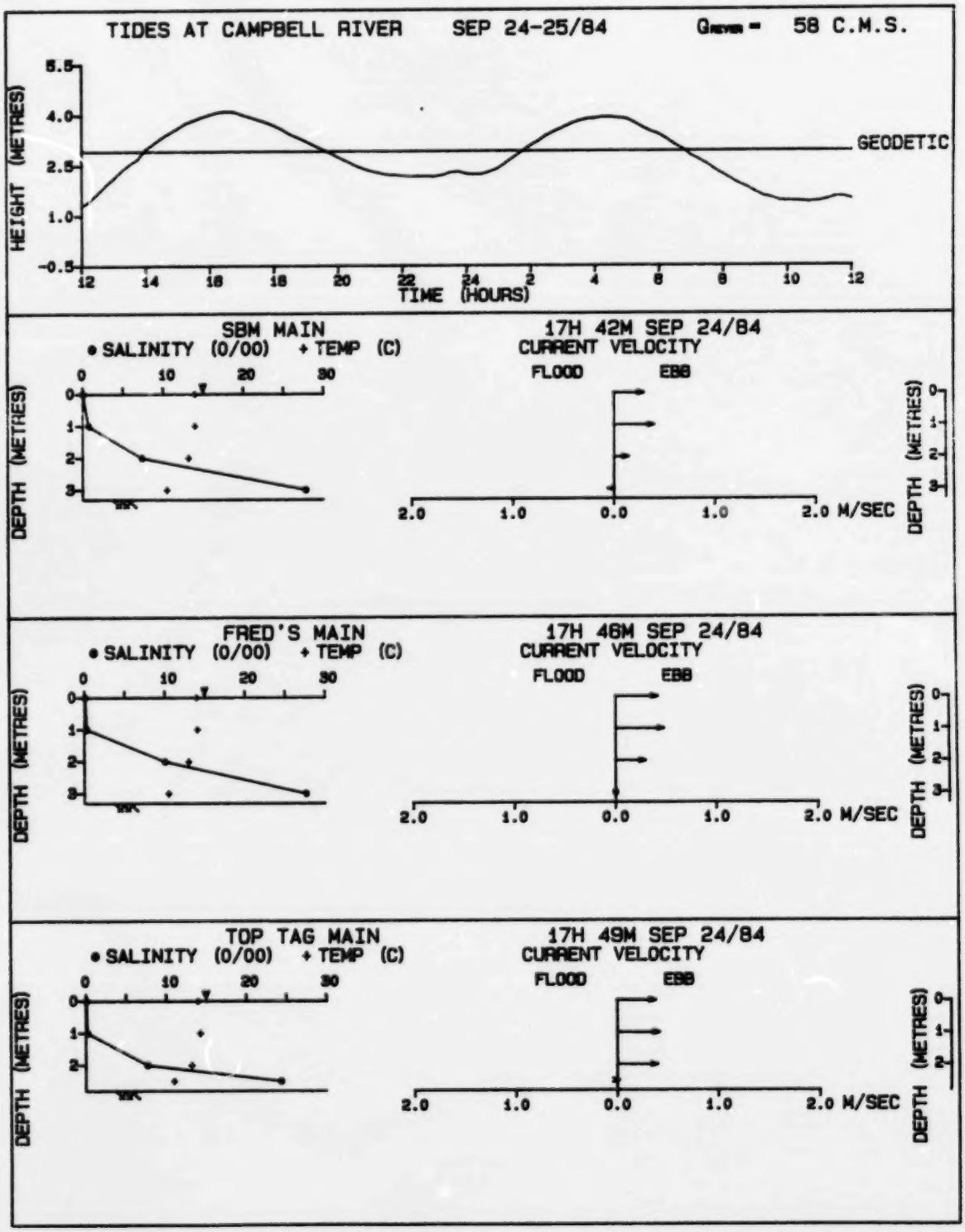
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



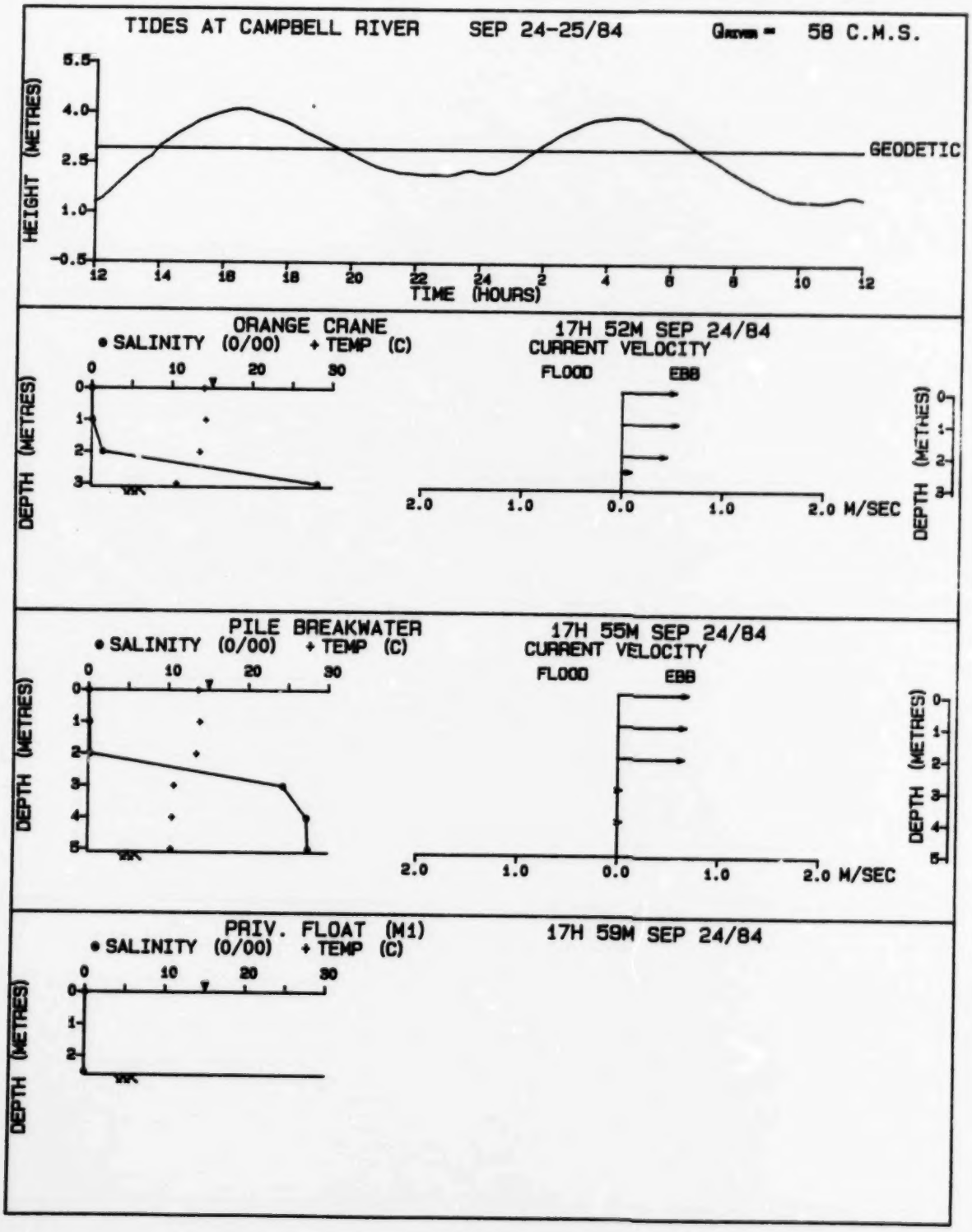
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



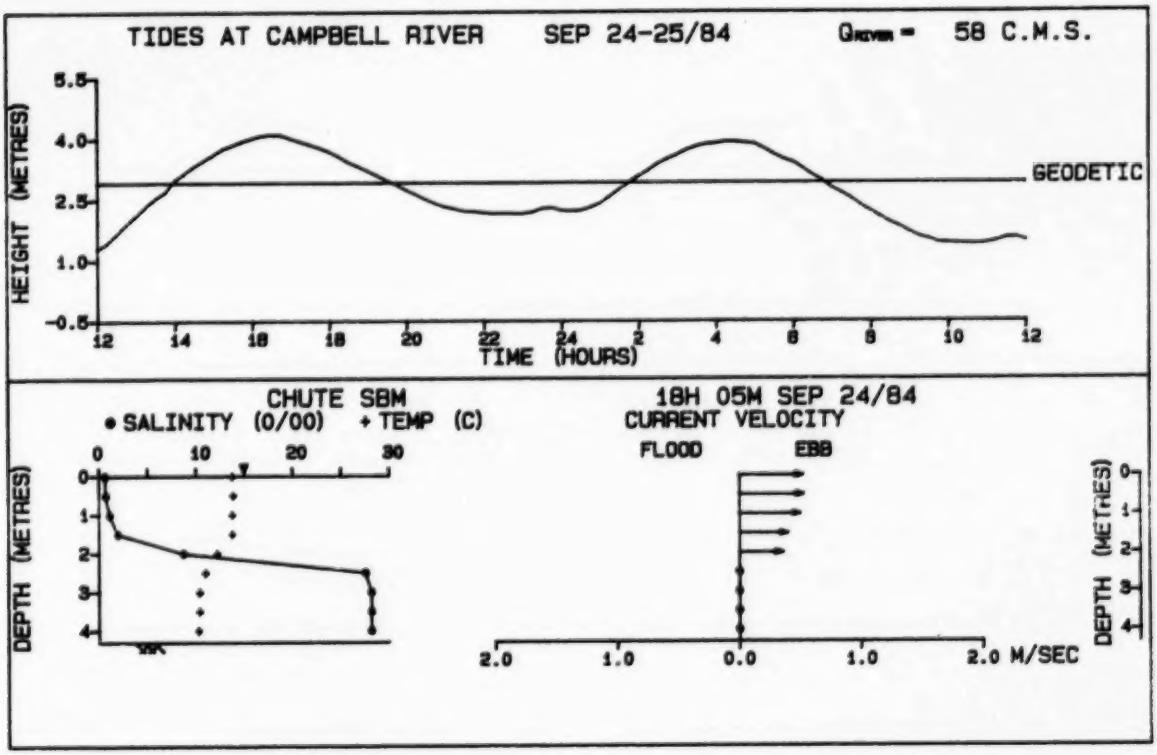
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SEP 25/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	07H 21M	.0	5.5	12.4	.60	E
		.5			.50	E
		1.0	23.0	10.6	.30	E
		2.0	28.3	10.0	.15	E
		3.0	28.8	9.8	.05	E
		3.5			.05	E
		4.0	29.0	9.6		
RANGE MARKERS	07H 29M	.0	3.2	12.6	.52	E
		.5	4.8	12.5	.34	E
		1.0	8.8	12.3	.25	E
		1.5			.25	E
		2.0	29.1	9.8	.25	E
		2.3	29.3	9.5	.15	E
GULF SIGN	07H 36M	.0	.4	13.2	.86	E
		.5	1.4	13.5	.82	E
		1.0	3.5	13.2	.76	E
		1.5			.44	E
		2.0	28.2	9.9	.20	E
		2.5			.08	E
		3.0	29.5	9.6	.08	E
FISH STN WHARF	07H 41M	.0	.4	13.6	.82	E
		.5	.9	13.6	.74	E
		1.0	2.5	13.6	.64	E
		1.5			.44	E
		2.0	25.1	10.6	.00	
		2.5			.00	
		3.0	29.0	9.7	.05	F
		3.2			.00	
		3.7	29.4	9.5		
NBM MAIN	07H 48M	.0	.5	13.5	.48	E
		.5	.5	13.6	.48	E
		1.0	.8	13.5	.52	E
		1.5			.52	E
		2.0	5.4	13.4	.40	E
		2.5			.00	
		3.0	28.2	10.1		
FISH BARGE	07H 52M	.0	.3	13.5	.58	E
		.5	.5	13.8	.60	E
		1.0	1.4	13.8	.58	E

SEP 25/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH BARGE	07H 52M	1.5			.55	E
		2.0	3.9	13.5	.55	E
CHUTE SBM	07H 58M	.0	.1	13.8	.48	E
		.5	.1	13.8	.44	E
		1.0	.1	13.8	.12	E
		1.5			.42	E
		2.0	.1	13.8	.30	E
		2.5	.1	13.8	.05	E
NBM MAIN	08H 04M	.0	.1	13.5		
		.5	.2	14.0		
		1.0	.4	14.0		
		2.0	2.2	13.8		
		2.3	14.9	12.2		
		2.7	26.5	10.7		
FISH STN WHARF	08H 11M	.0	.4	13.8	.74	E
		.5	.9	13.8	.76	E
		1.0	1.9	13.3	.76	E
		1.5			.76	E
		2.0	23.7	10.8	.32	E
		2.5			.00	
		3.0	28.8	9.7	.00	
		3.2	29.7	9.6	.00	
FISH STN WHARF	08H 21M	.0	.1	13.4	.72	E
		.5	.7	13.8	.76	E
		1.0	1.5	13.8	.76	E
		1.5			.74	E
		2.0	13.5	12.2	.34	E
		2.5			.02	E
		3.0	29.0	9.8	.00	
		3.3	28.9	9.6		
FISH STN WHARF	08H 27M	.0	.1	13.7	.68	E
		.5	.6	13.7	.68	E
		1.0	1.6	13.8	.64	E
		1.5			.60	E
		2.0	7.0	13.2	.50	E
		2.5			.00	
		3.0	28.2	10.1	.00	
		3.2	29.3	9.8		

SEP 25/84

RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	08H 31M	.0	.3	13.7	.64	E
		.5	.5	13.7	.66	E
		1.0	1.6	13.8	.63	E
		1.5			.63	E
		2.0	3.7	13.5	.50	E
		2.5			.00	
		3.0	29.2	10.2	.00	
		3.2	29.5	9.9		
FISH STN WHARF	08H 36M	.0	.2	13.7	.66	E
		.5	.4	13.8	.68	E
		1.0	1.4	13.8	.70	E
		1.5			.62	E
		2.0	3.8	13.2	.44	E
		2.5	27.8	10.4	.00	
		3.0	28.6	9.9	.00	
		3.1	28.6	9.8		
FISH STN WHARF	08H 41M	.0	.1	13.7	.72	E
		.5	1.2	13.9	.72	E
		1.0	1.6	13.8	.73	E
		1.5			.65	E
		2.0	3.0	13.7	.60	E
		2.5	23.1	11.8	.10	E
		3.0	28.3	9.9	.00	
		3.1	28.8	9.8		
FISH STN WHARF	08H 47M	.0	.2	13.7	.73	E
		.5	.4	13.9	.72	E
		1.0	1.7	13.8	.70	E
		1.5			.60	E
		2.0	3.1	13.7	.54	E
		2.5	22.9	12.4	.20	E
		3.0	28.5	10.3	.00	
		3.1	28.5	9.9		
FISH STN WHARF	08H 51M	.0	.2	13.8	.78	E
		.5	.6	13.8	.76	E
		1.0	1.2	13.9	.68	E
		1.5			.64	E
		2.0	3.1	13.6	.60	E
		2.5	9.4	12.8	.30	E
		2.8			.00	
		3.0	28.4	10.2		

SEP 25/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	08H 57M	.0	.2	13.6	.70	E
		.5	1.3	13.9	.70	E
		1.0	1.6	13.8	.68	E
		1.5			.63	E
		2.0	2.6	13.7	.57	E
		2.5	10.0	12.6	.44	E
		2.8			.08	E
		3.0	28.6	9.9		
FISH STN WHARF	09H 01M	.0	.2	13.6	.68	E
		.5	1.0	13.9	.70	E
		1.0	1.4	13.9	.66	E
		1.5			.64	E
		2.0	2.2	13.6	.62	E
		2.5	4.0	13.3	.48	E
		2.7			.12	E
		3.0	28.2	10.2		
FISH STN WHARF	09H 11M	.0	.4	13.8	.65	E
		.5	1.0	13.9	.65	E
		1.0	1.3	13.8	.64	E
		1.5			.62	E
		2.0	2.3	13.8	.52	E
		2.5	3.0	13.6	.46	E
		2.6			.40	E
		3.0	9.4	12.6		
FISH STN WHARF	09H 21M	.0	.9	13.8	.42	E
		.5	1.2	13.9	.50	E
		1.0	1.2	13.9	.48	E
		1.5			.50	E
		2.0	2.0	13.8	.48	E
		2.5	2.3	13.8	.40	E
		2.6			.40	E
		2.9	2.4	13.8		
FISH STN WHARF	09H 31M	.0	.7	13.8	.35	E
		.5	.9	13.8	.40	E
		1.0	.9	13.8	.48	E
		1.5			.46	E
		2.0	1.9	13.8	.45	E
		2.5	2.3	13.8	.40	E
		2.9	2.3	13.8		

SEP 25/84

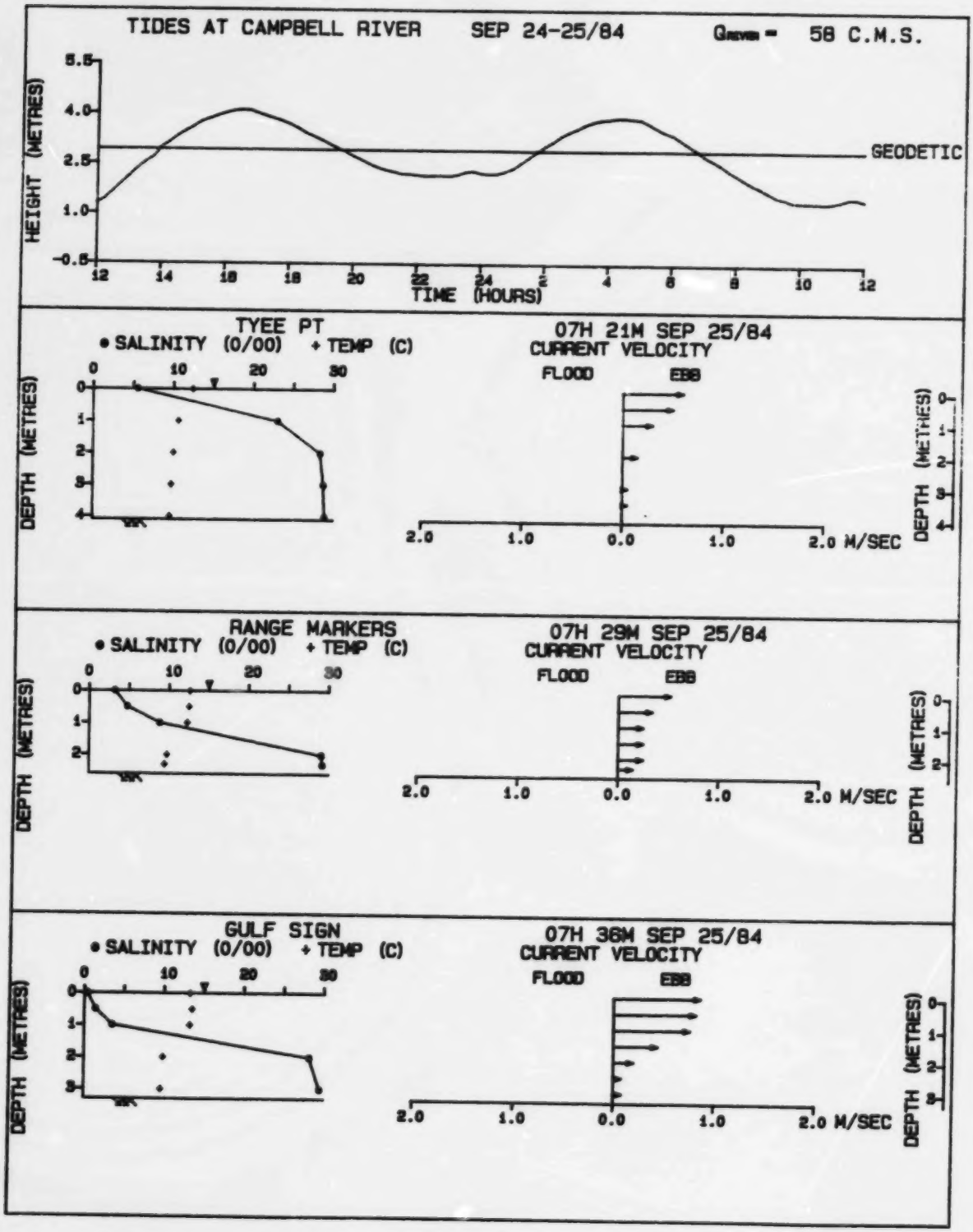
RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
FISH STN WHARF	09H 41M	.0	.6	13.8	.48	E
		.5	.9	13.8	.46	E
		1.0	.9	13.8	.48	E
		1.5			.47	E
		2.0	1.9	13.8	.48	E
		2.5	1.9	13.8	.46	E
		2.9	2.0	13.8		
FISH STN WHARF	09H 51M	.0	.3	13.8	.45	E
		.5	.3	14.0	.45	E
		1.0	.3	14.0	.44	E
		1.5			.46	E
		2.0	1.6	14.0	.48	E
		2.5	1.6	14.0	.46	E
		2.8	1.7	14.0		
TYEE PT	10H 01M	.0	1.4	13.3	.64	E
		.5	4.4	13.3	.55	E
		1.0	5.7	13.2	.55	E
		1.5			.20	E
		2.0	24.4	10.5	.00	
		3.0	26.7	10.2	.00	
		4.0	27.6	9.8	.05	E
		4.5	27.6	9.8	.05	E
RANGE MARKER	10H 10M	.0	1.3	13.6	.50	E
		.5	3.6	13.5	.44	E
		1.0	6.8	13.0	.48	E
		1.5	10.0	12.4	.20	E
GULF SIGN	10H 16M	.0	.2	13.6	.62	E
		.5	.2	13.9	.62	E
		1.0	.5	13.9	.62	E
		1.5			.55	E
		2.0	1.0	13.9	.35	E
		2.3	.9	13.9		
FISH STN WHARF	10H 20M	.0	.1	14.0	.50	E
		.5	.1	14.0	.44	E
		1.0	.2	14.0	.40	E
		1.5			.36	E
		2.0	.6	14.0	.34	E
		2.5			.30	E
		2.8	.7	14.0		

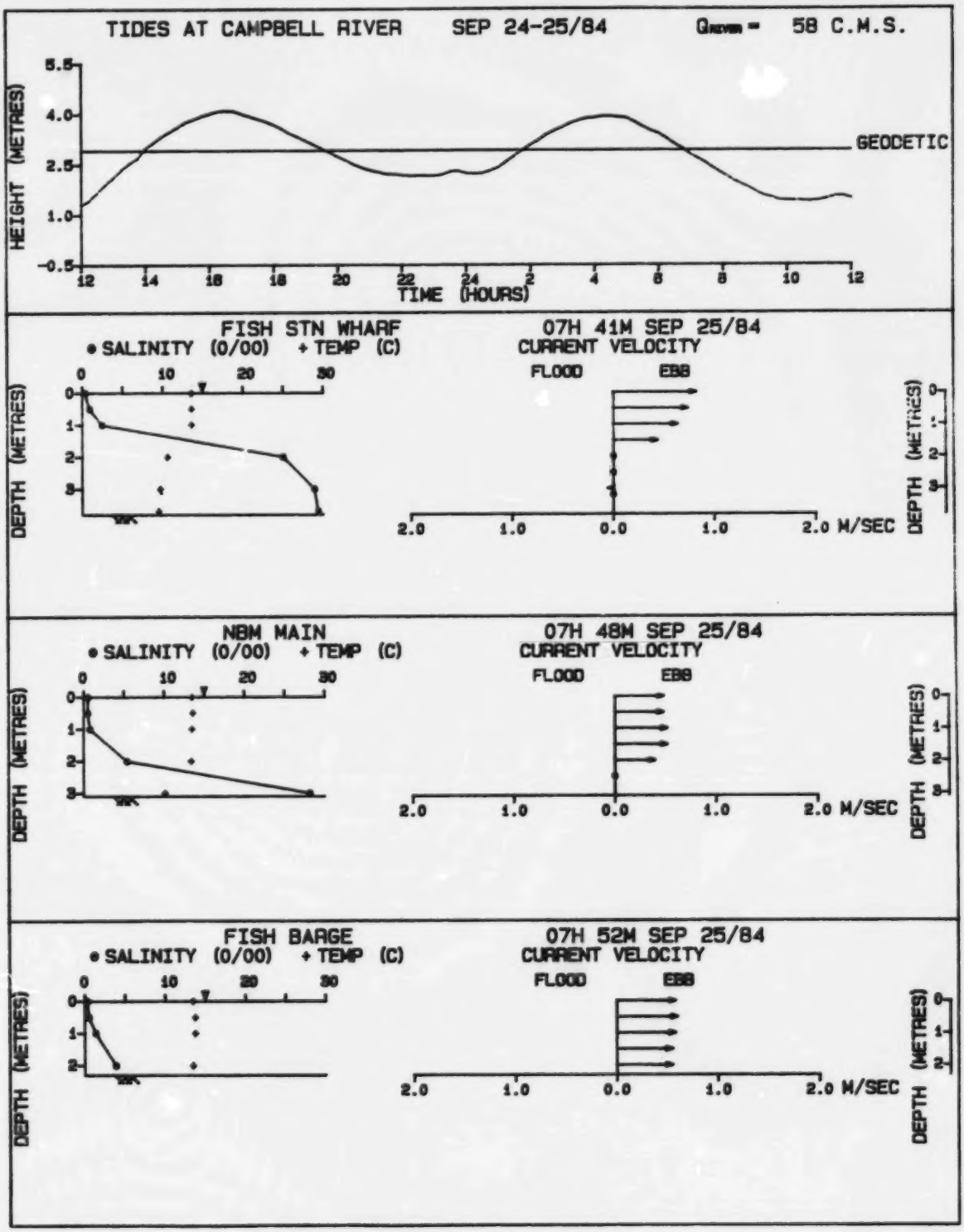
SEP 25/84 RIVER DISCHARGE = 58 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
NBM MAIN	10H 24M	.0	.0	14.2	.68	E
		.5	.0	14.2	.74	E
		1.0	.0	14.2	.70	E
		1.5			.60	E
		2.0	.0	14.2	.55	E
FISH STN WHARF	10H 28M	.0	.0	14.3	.84	E
		.5	.0	14.3	.80	E
		1.0	.0	14.3	.76	E
		1.5	.0	14.3		
FISH STN WHARF	10H 34M	.0	.1	14.0	.54	E
		.5	.1	14.2	.54	E
		1.0	.2	14.2	.42	E
		1.5			.36	E
		2.0	.7	14.2	.36	E
		2.5			.36	E
		3.0	.7	14.2		

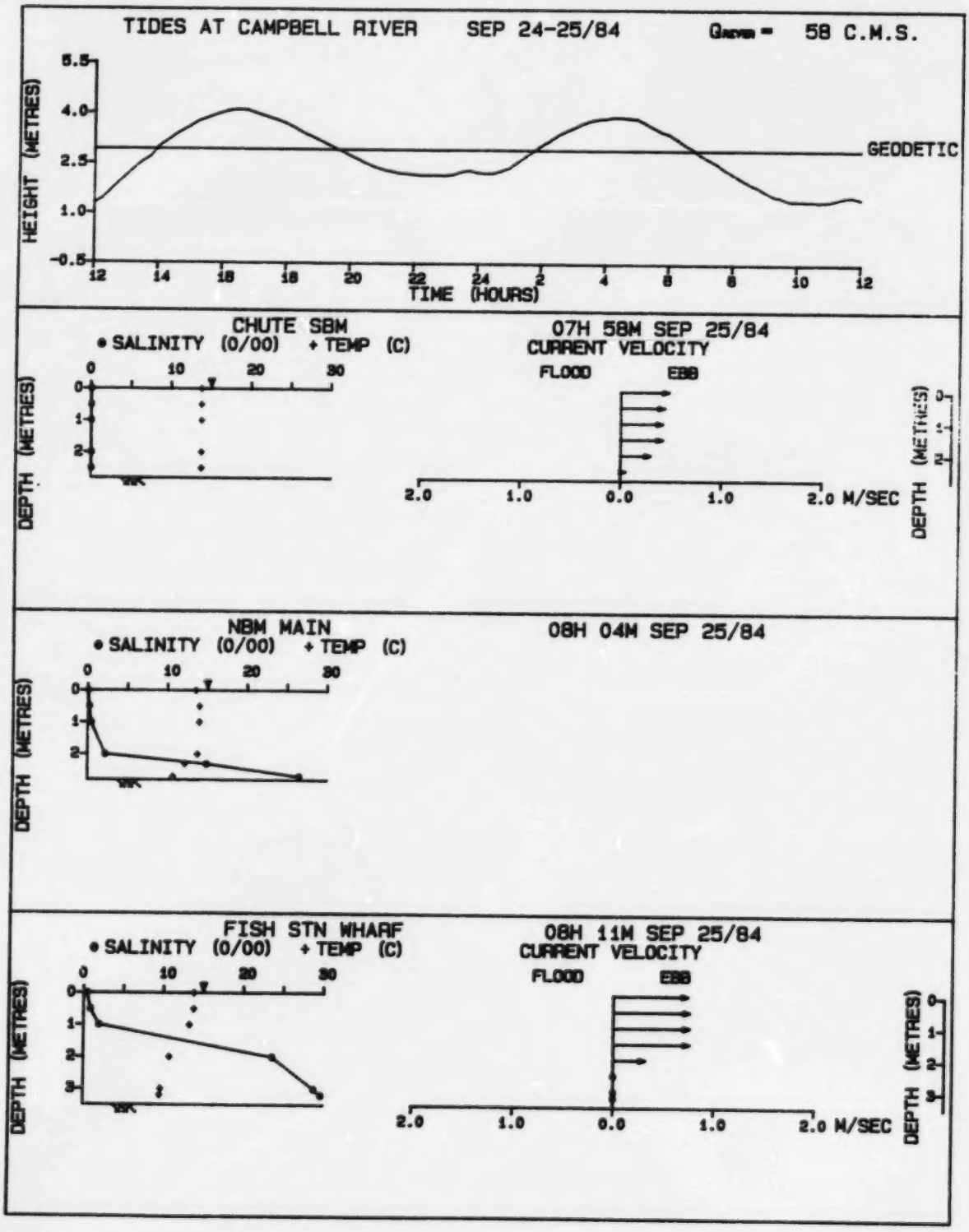
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



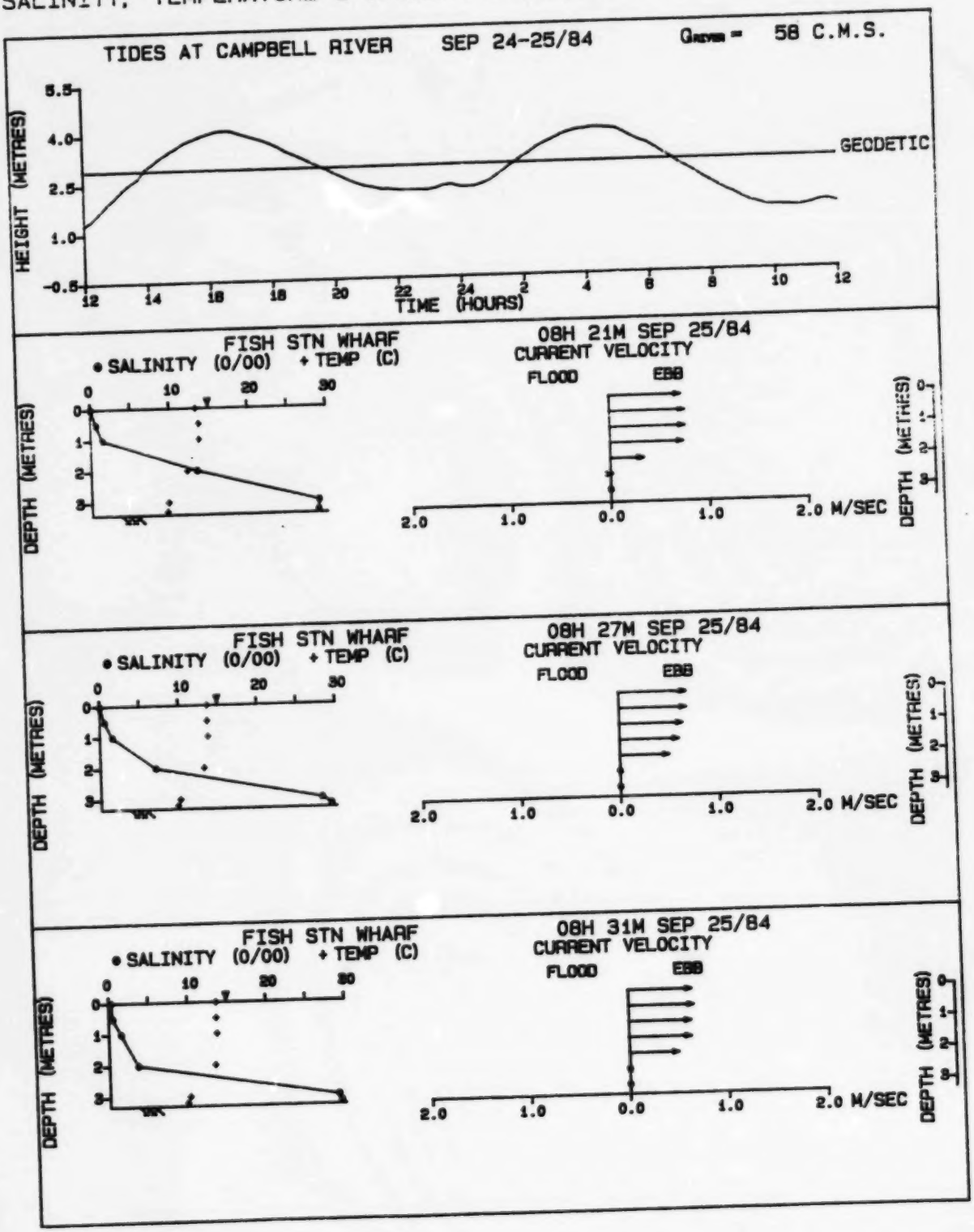
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



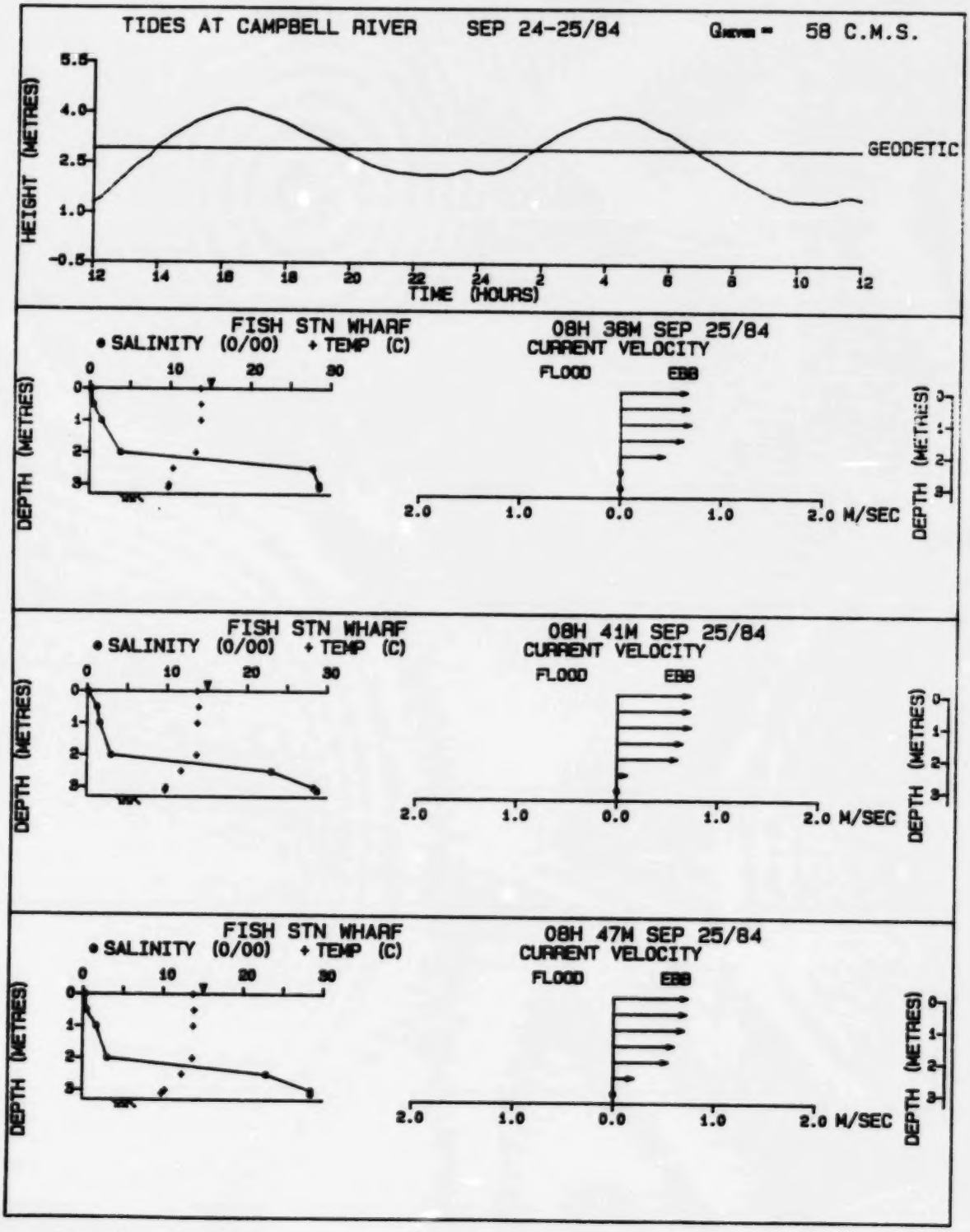
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



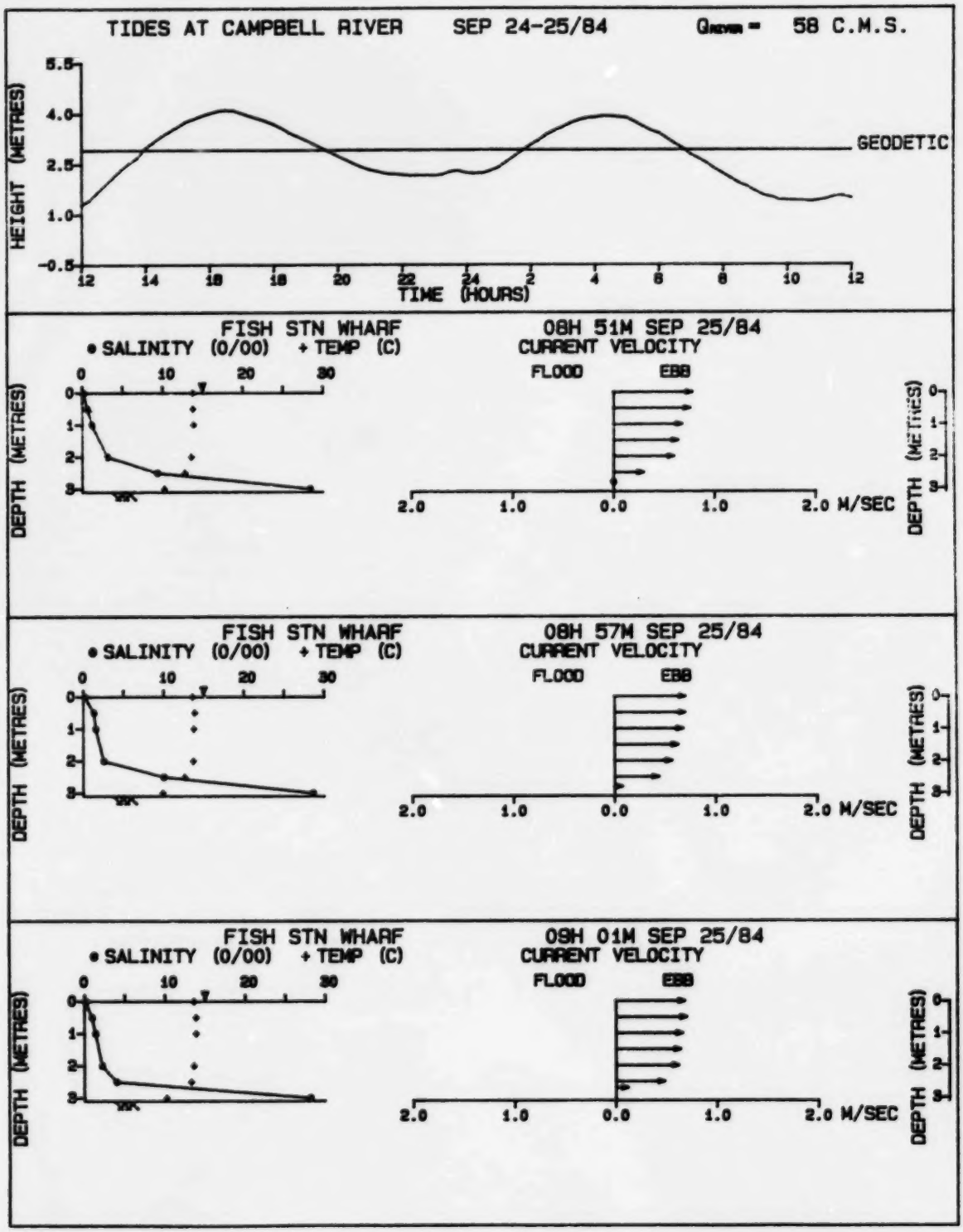
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



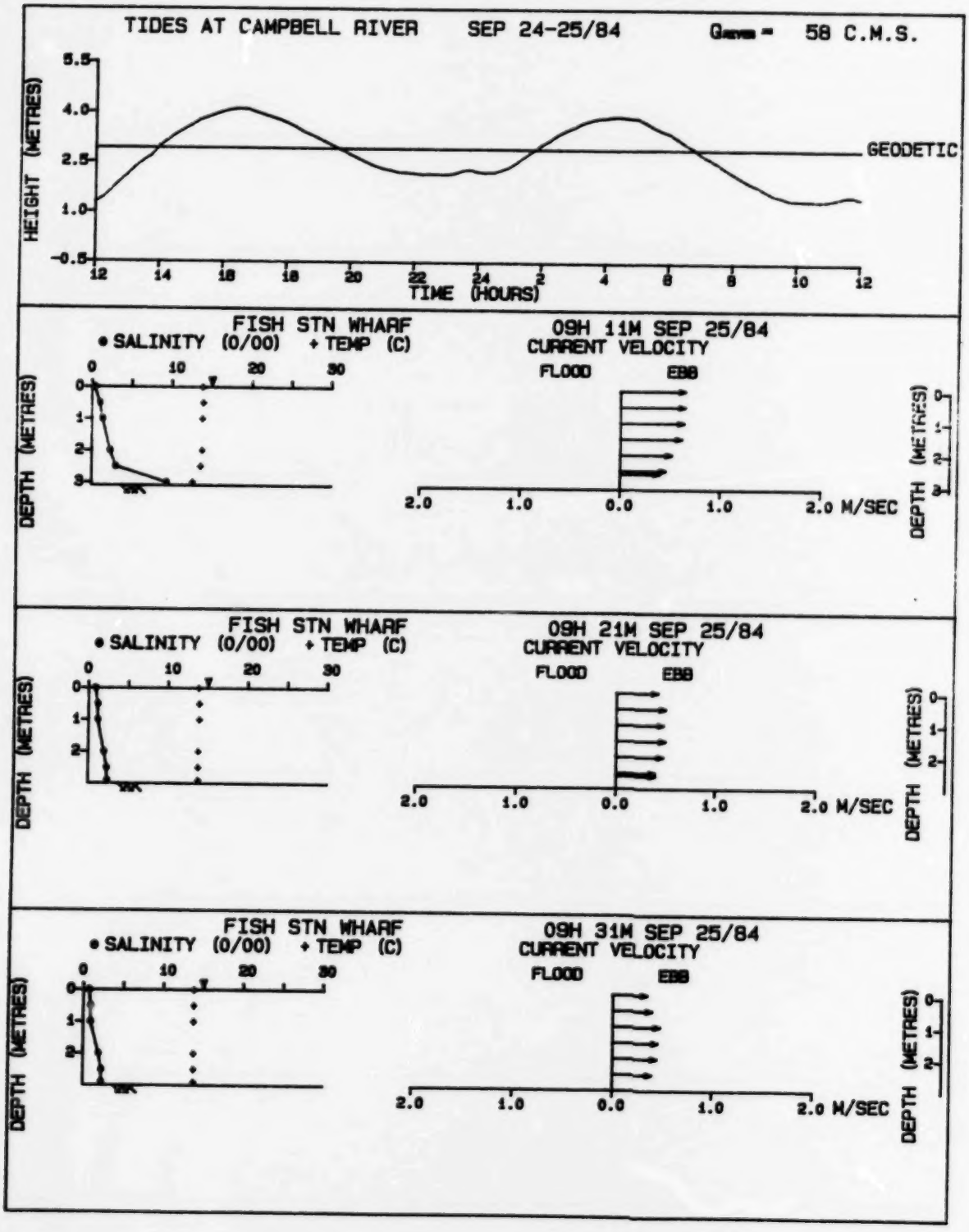
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



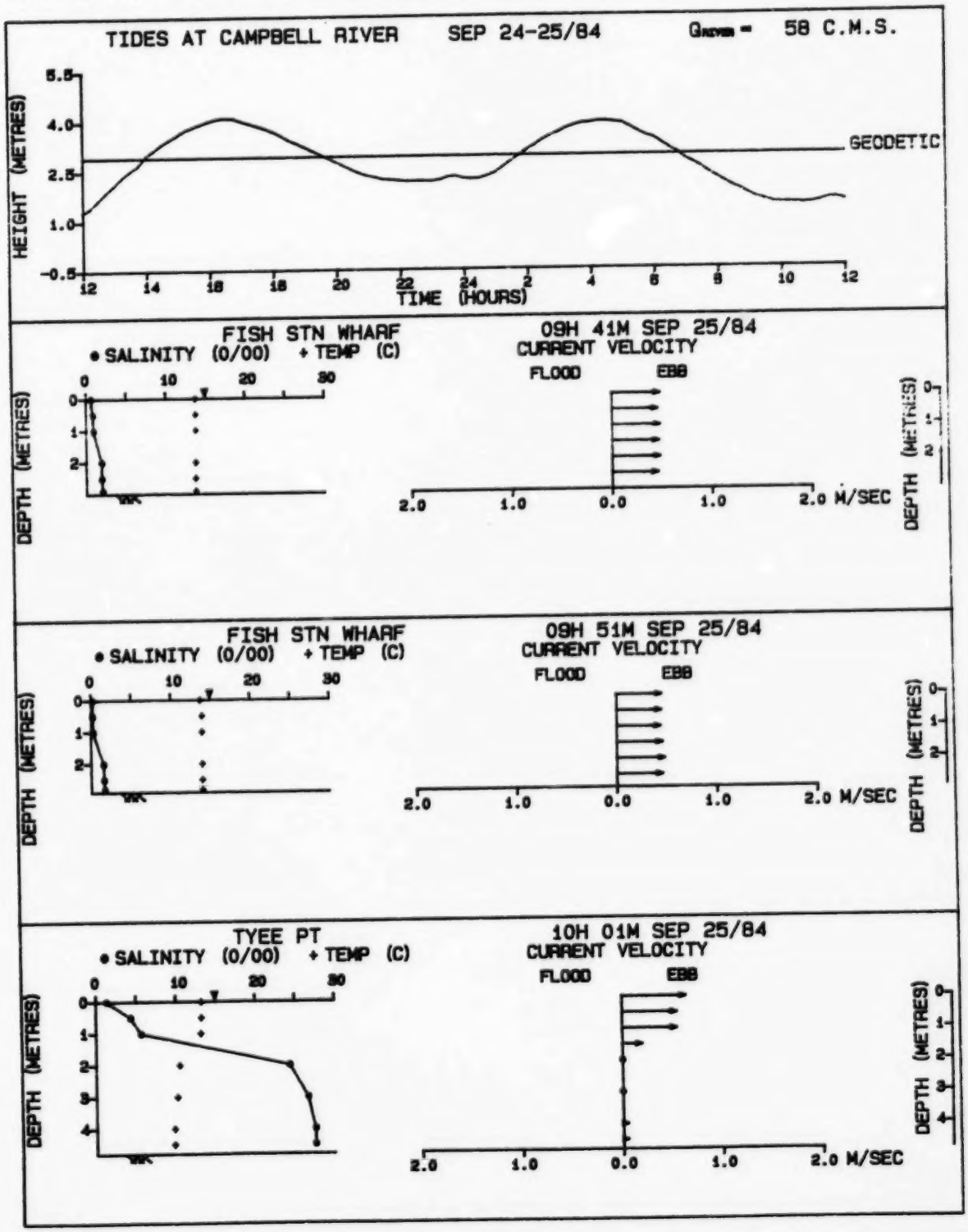
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



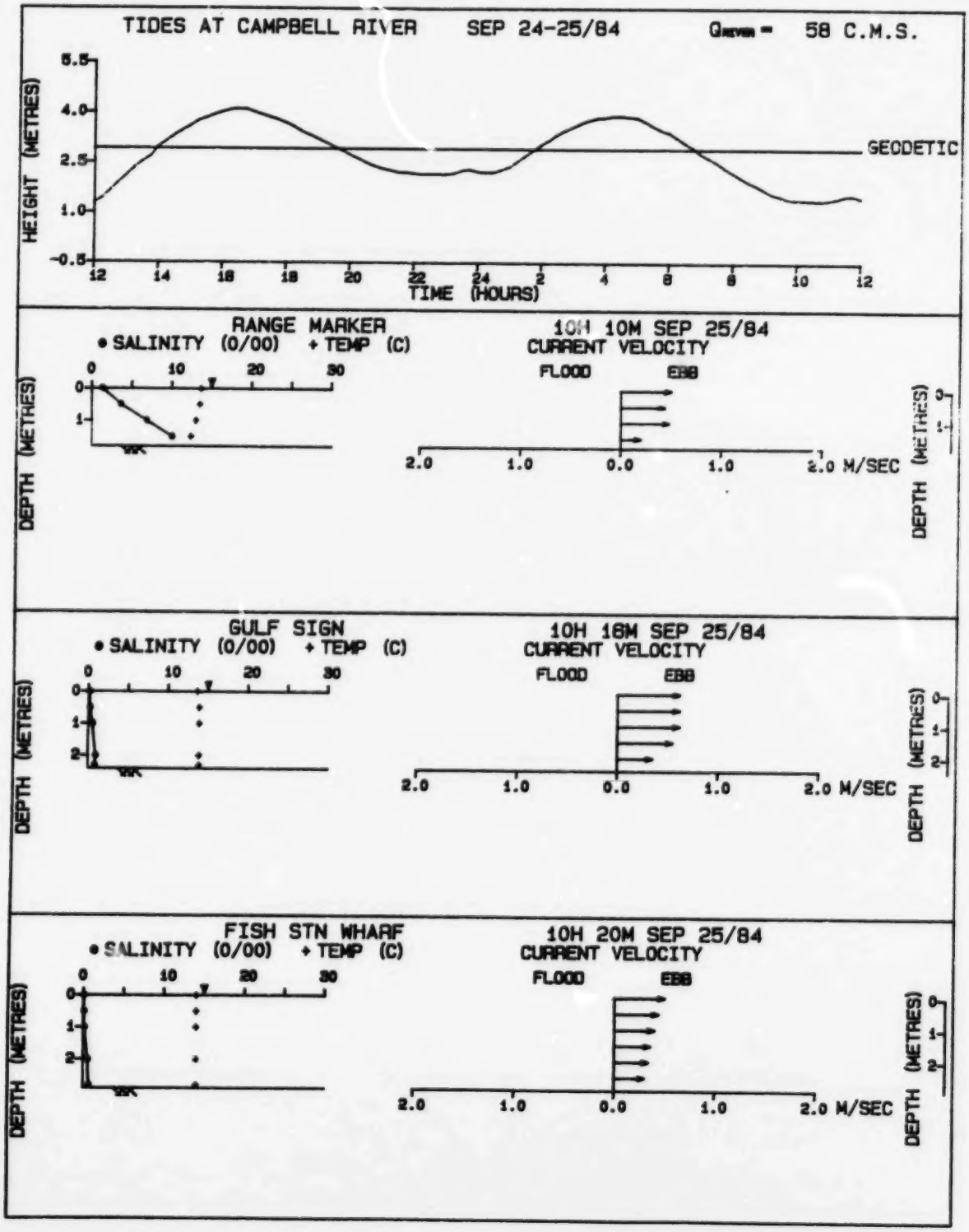
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



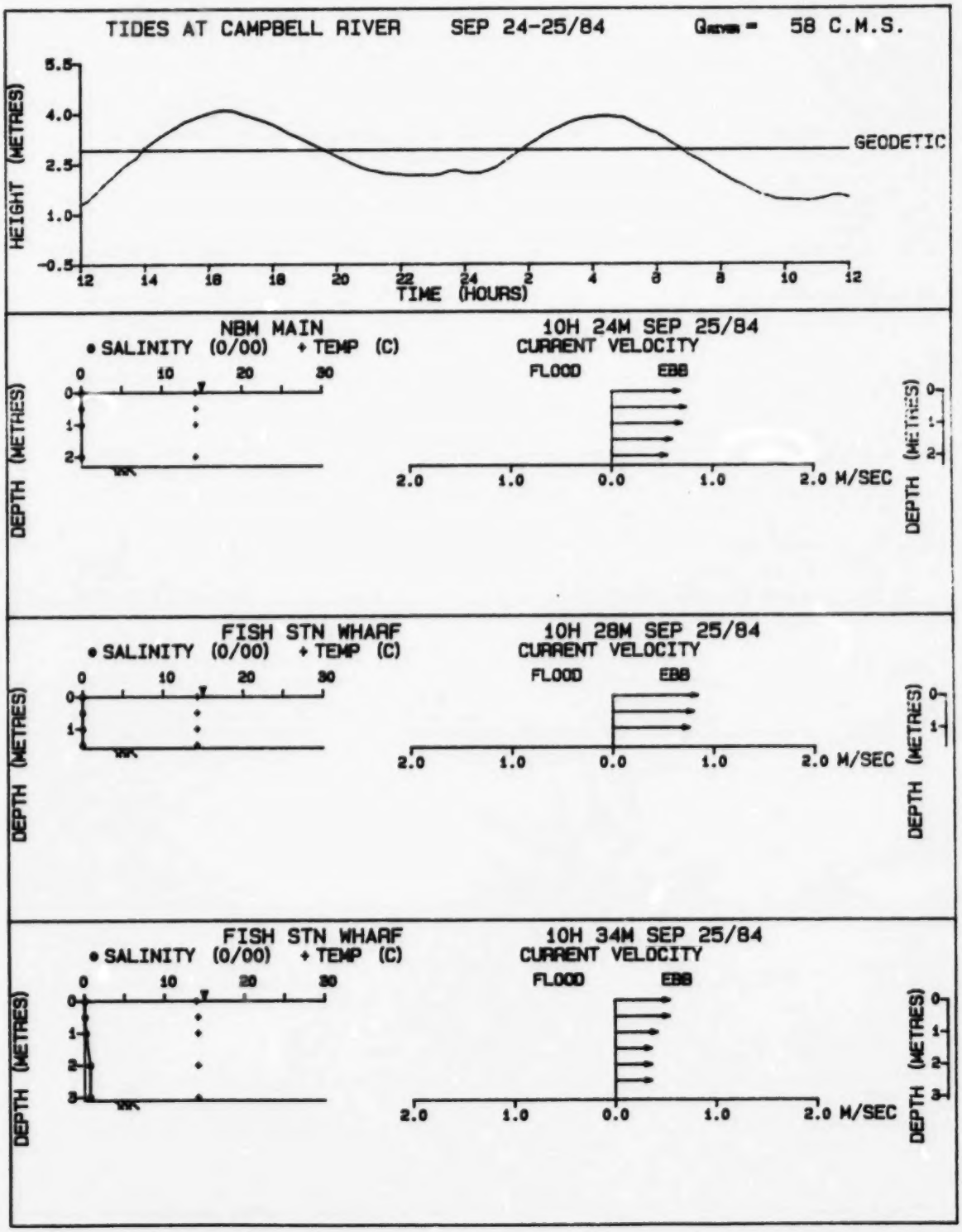
SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY, TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



NOV 22/84

RIVER DISCHARGE = 116 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY* (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
RANGE MARKERS	14H 50M	.0	5.9	7.5		
		2.0	11.8	8.0		
		3.0	11.8	8.2		
GULF SIGN	14H 55M	.0	1.1	7.2		
		2.0	12.5	7.5		
		4.0	12.5	8.0		
		5.0	12.5	8.0		
FISH STN WHARF	15H 00M	.0	.8	7.0		
		2.0	13.2	8.0		
		4.0	13.2	8.2		
		5.0	13.2	8.3		
NBM MAIN	15H 04M	.0	.8	7.0	.50	E
		1.0	2.2	7.0	.60	E
		2.0	9.8	7.5	.15	E
		3.0	13.2	8.0	.05	F
		4.0	13.2	8.2	.04	F
		4.5			.05	F
		5.0	13.2	8.4		
FISH BARGE	15H 17M	.0	.2	7.0	.65	E
		1.0	1.1	7.0	.60	E
		2.0	4.0	7.0	.50	E
		3.0	13.9	8.2	.10	E
		4.0	13.9	8.2	.05	E
SBM MAIN	15H 25M	.0	.8	7.0	.60	E
		1.0	1.3	7.0	.60	E
		2.0	2.8	7.0	.40	E
		3.0	13.9	8.0	.10	E
FRED'S MAIN	15H 30M	.0	.1	7.0	.50	E
		1.0	.2	7.0	.45	E
		2.0	2.2	7.0	.45	E
		2.5			.20	E
		3.0	7.2	7.0		
ORANGE CRANE	15H 35M	.0	.0	6.8	.70	E
		1.0	.1	6.8	.75	E
		2.0	.8	6.8	.75	E

NOV 22/84 RIVER DISCHARGE = 116 CU.M/SEC

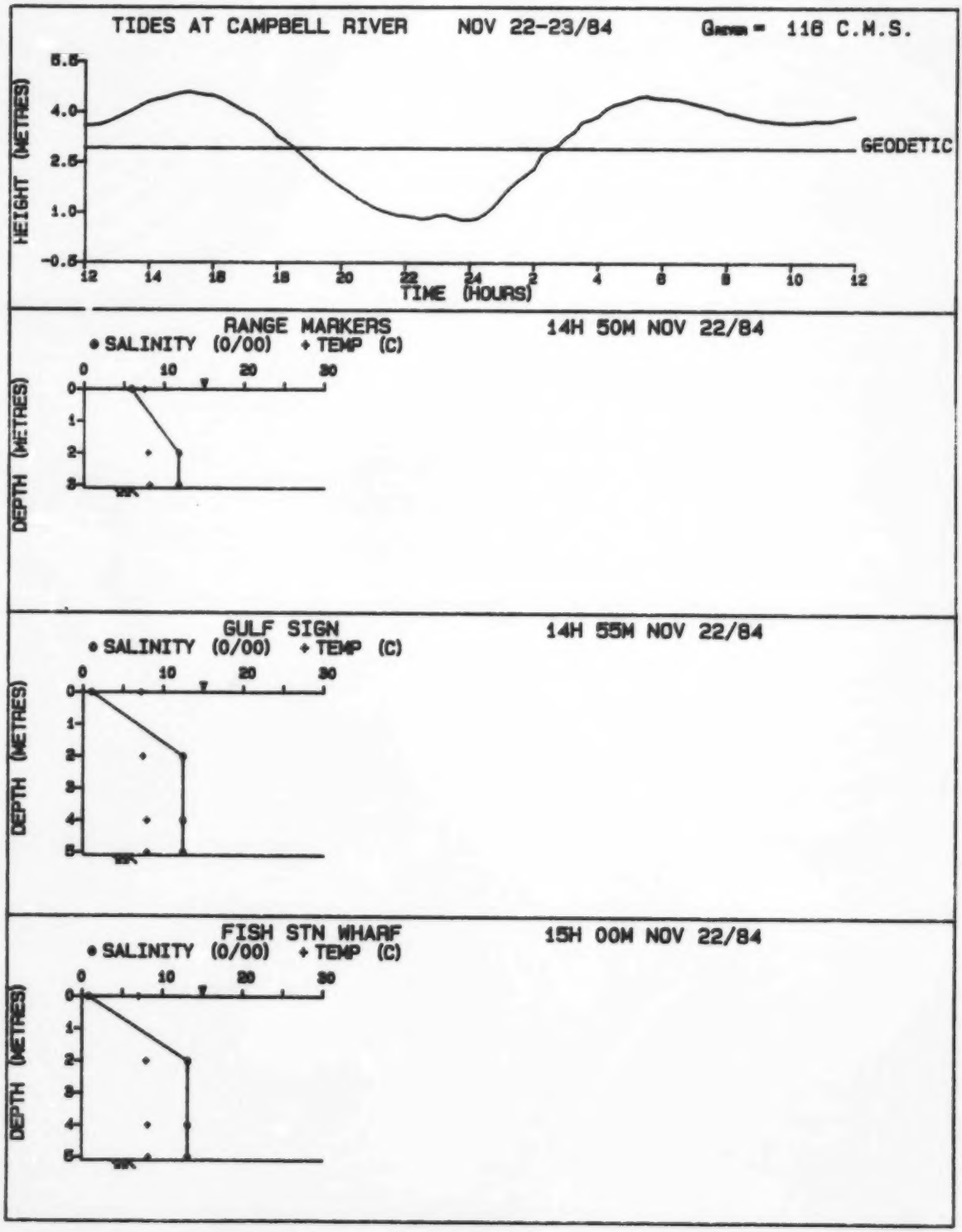
LOCATION	TIME (PST)	DEPTH (M)	SALINITY* (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ORANGE CRANE	15H 35M	3.0	8.5	7.2	.45	E
		4.0	13.9	8.0	.10	E
PILE BREAKWATER	15H 40M	.0	.0	6.7	.80	E
		1.0	.0	6.6	.85	E
		2.0	.2	6.6	.75	E
		3.0	.5	6.6	.80	E
		4.0	11.8	7.5	.35	E
		5.0	13.9	8.1	.10	E
PRIVATE FLOAT M1	15H 46M	.0	.0	6.6	.60	E
		1.0	.0	6.6	.60	E
		2.0	.0	6.3	.60	E
		3.0	.0	6.2	.55	E
FISH STN WHARF	15H 55M	.0	.8	7.0		
		2.0	13.9	7.5		
		4.0	15.3	8.2		
NBM MAIN	16H 00M	.0	.8	6.8	.60	E
		1.0	2.8	7.0	.65	E
		2.0	11.8	7.5	.30	E
		3.0	15.3	8.2	.05	F
		4.0	14.6	8.2	.10	F
		5.0	15.3	8.2	.05	F
FISH BARGE	16H 07M	.0	1.1	7.0	.60	E
		1.0	1.1	7.0	.55	E
		2.0	5.3	7.0	.40	E
		3.0	15.3	8.0	.05	E
		3.5	15.3	8.2		
SBM MAIN	16H 15M	.0	1.1	7.0	.50	E
		1.0	1.1	6.9	.35	E
		2.0	2.8	6.9	.30	E
		3.0	14.6	8.0	.05	E
FRED'S MAIN	16H 20M	.0	.1	7.0	.60	E
		1.0	.5	7.0	.60	E
		2.0	1.6	7.0	.50	E
		2.5	6.5	7.0		

NOV 22/84

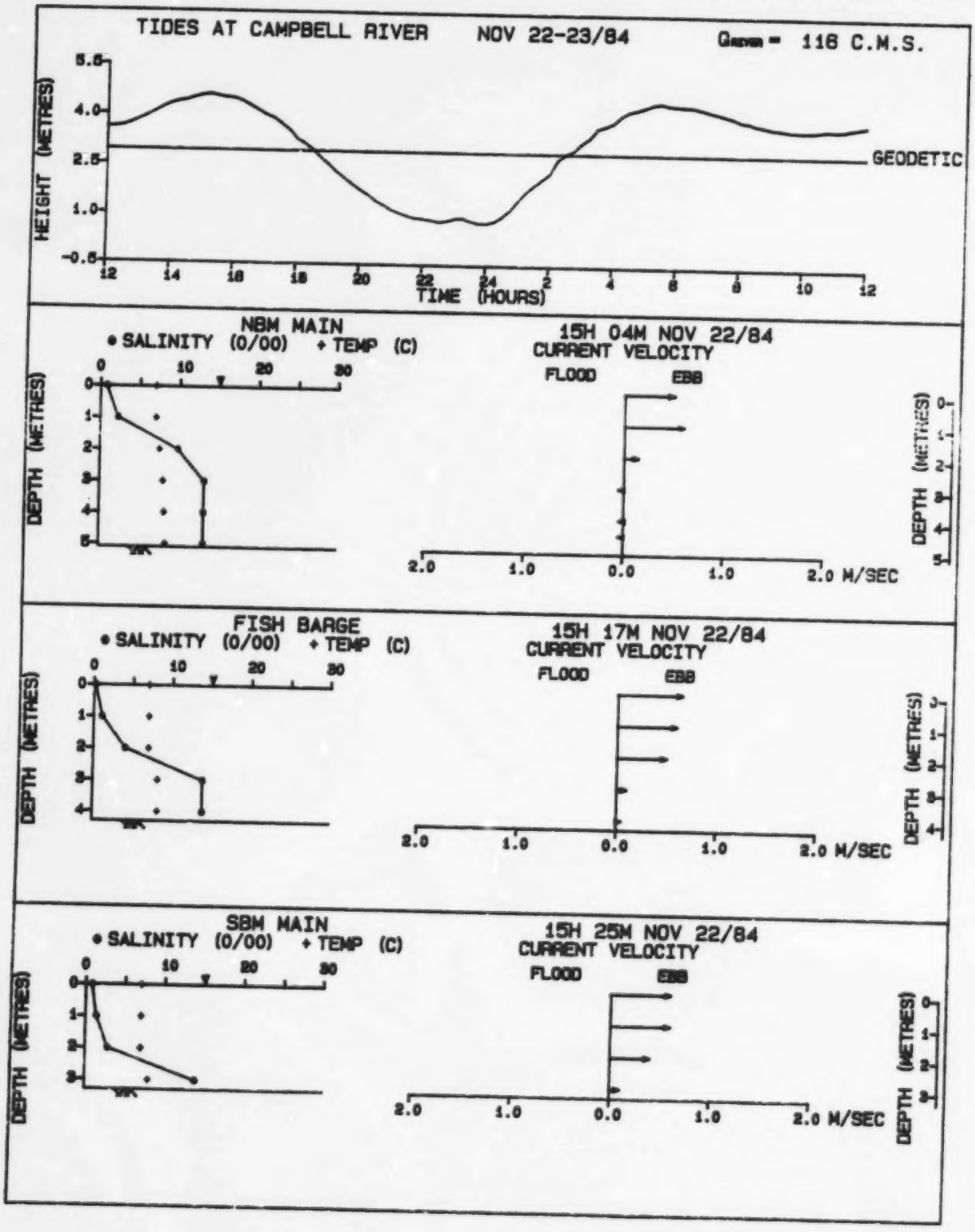
RIVER DISCHARGE = 116 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY* (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
ORANGE CRANE	16H 25M	.0	.0	6.8	.80	E
		1.0	.1	6.8	.80	E
		2.0	.5	6.7	.80	E
		3.0	2.2	6.6	.60	E
		4.0	13.2	7.5	.20	E
PILE BREAKWATER	16H 31M	.0	.0	6.9	.70	E
		1.0	.0	6.9	.80	E
		2.0	.0	6.9	.60	E
		3.0	.0	6.8	.50	E
		4.0	4.0	6.3	.45	E
		5.0	6.5	6.6		
PRIVATE FLOAT M1	16H 36M	.0	.0	6.7		
		1.0	.0	6.8		
		2.0	.0	6.8		

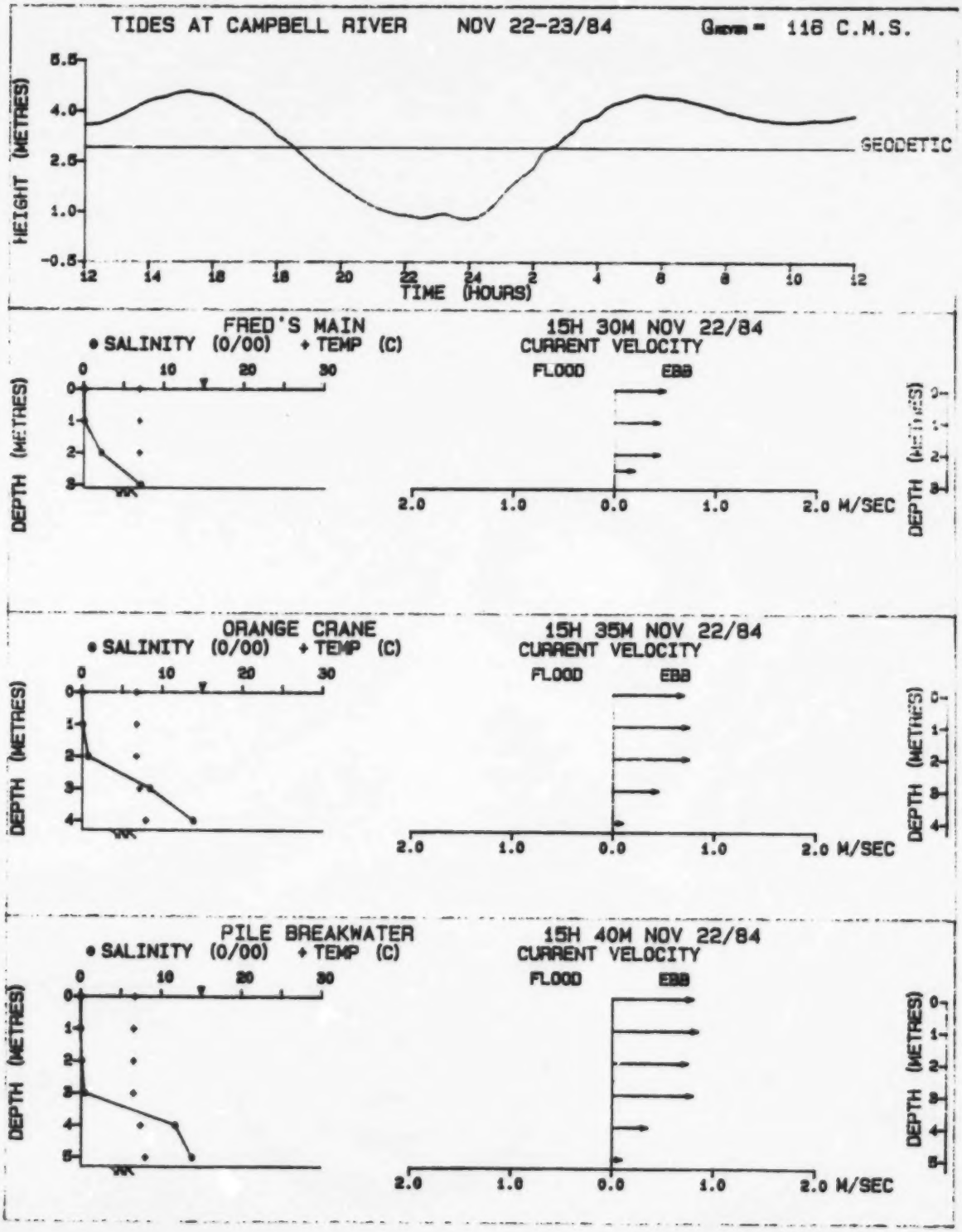
SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



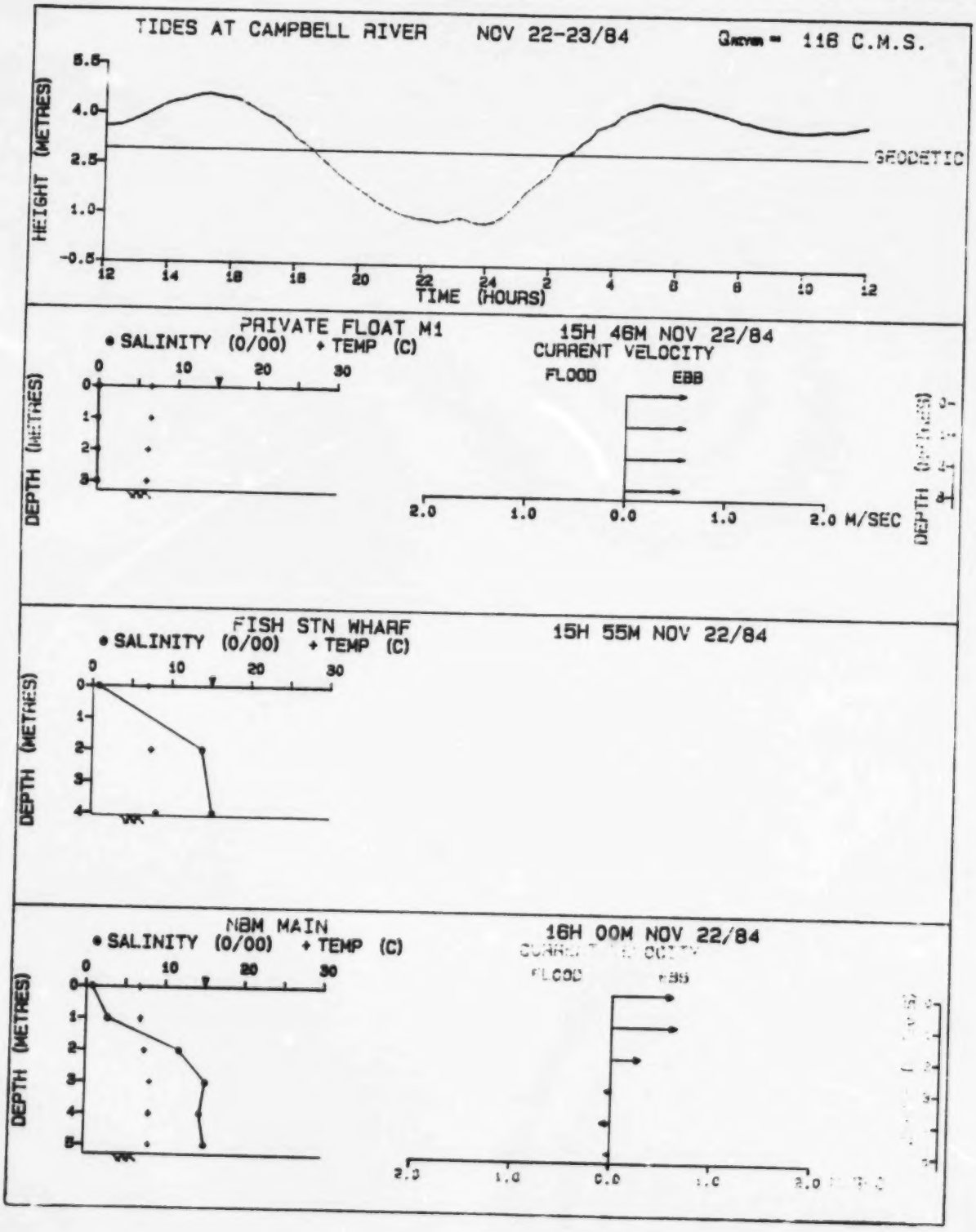
SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



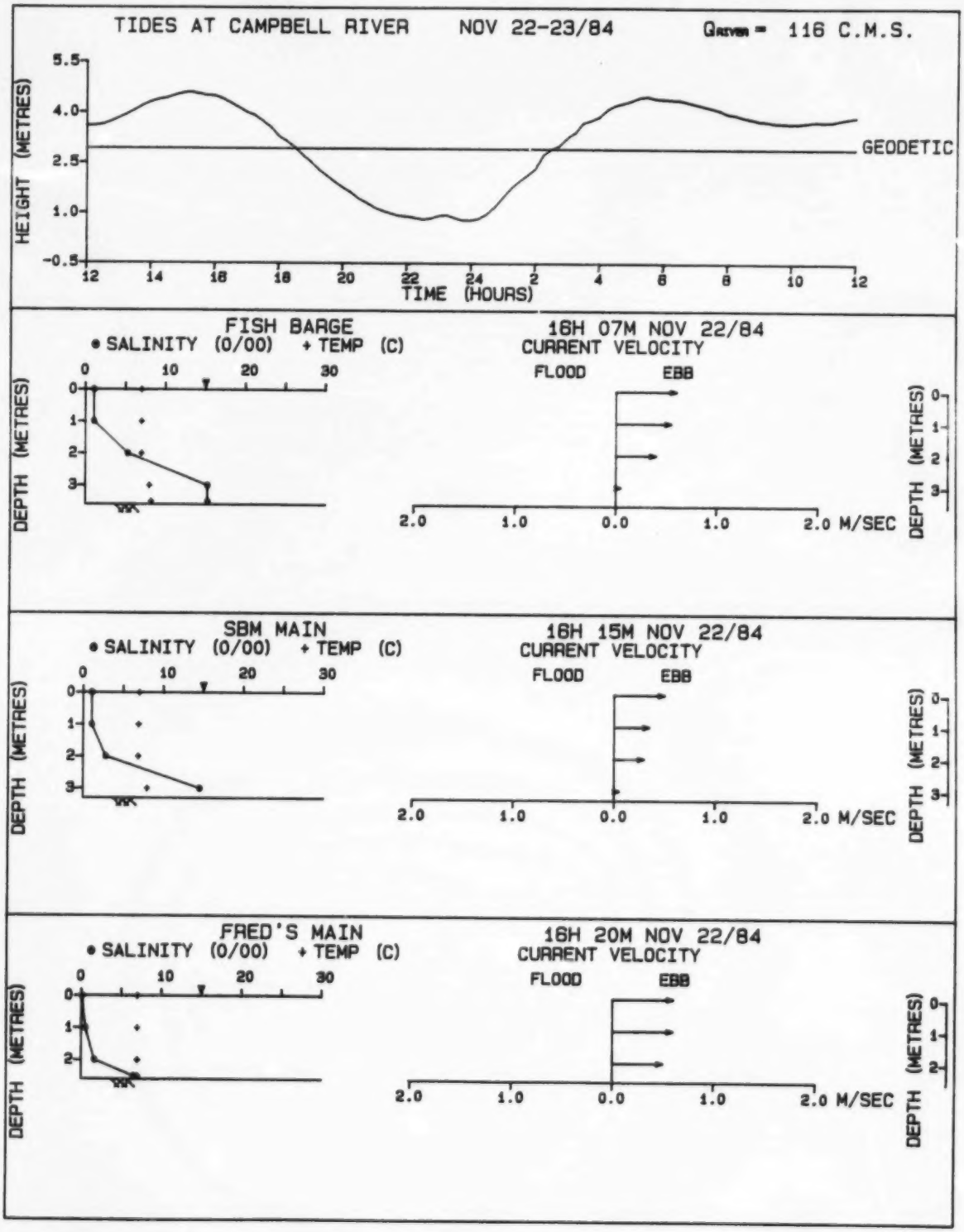
SALINITY* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



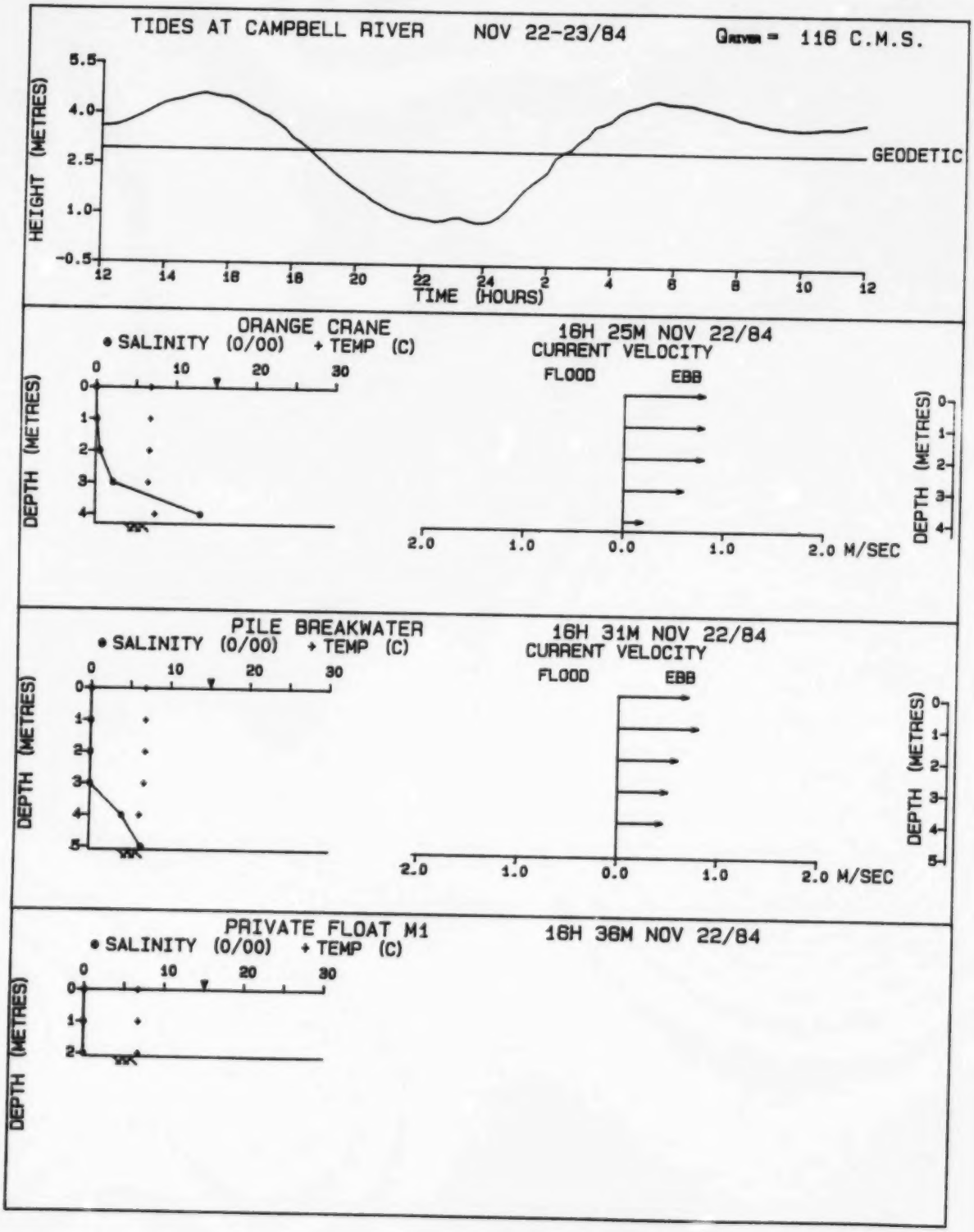
SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



NOV 23/84 RIVER DISCHARGE = 156 CU.M/SEC

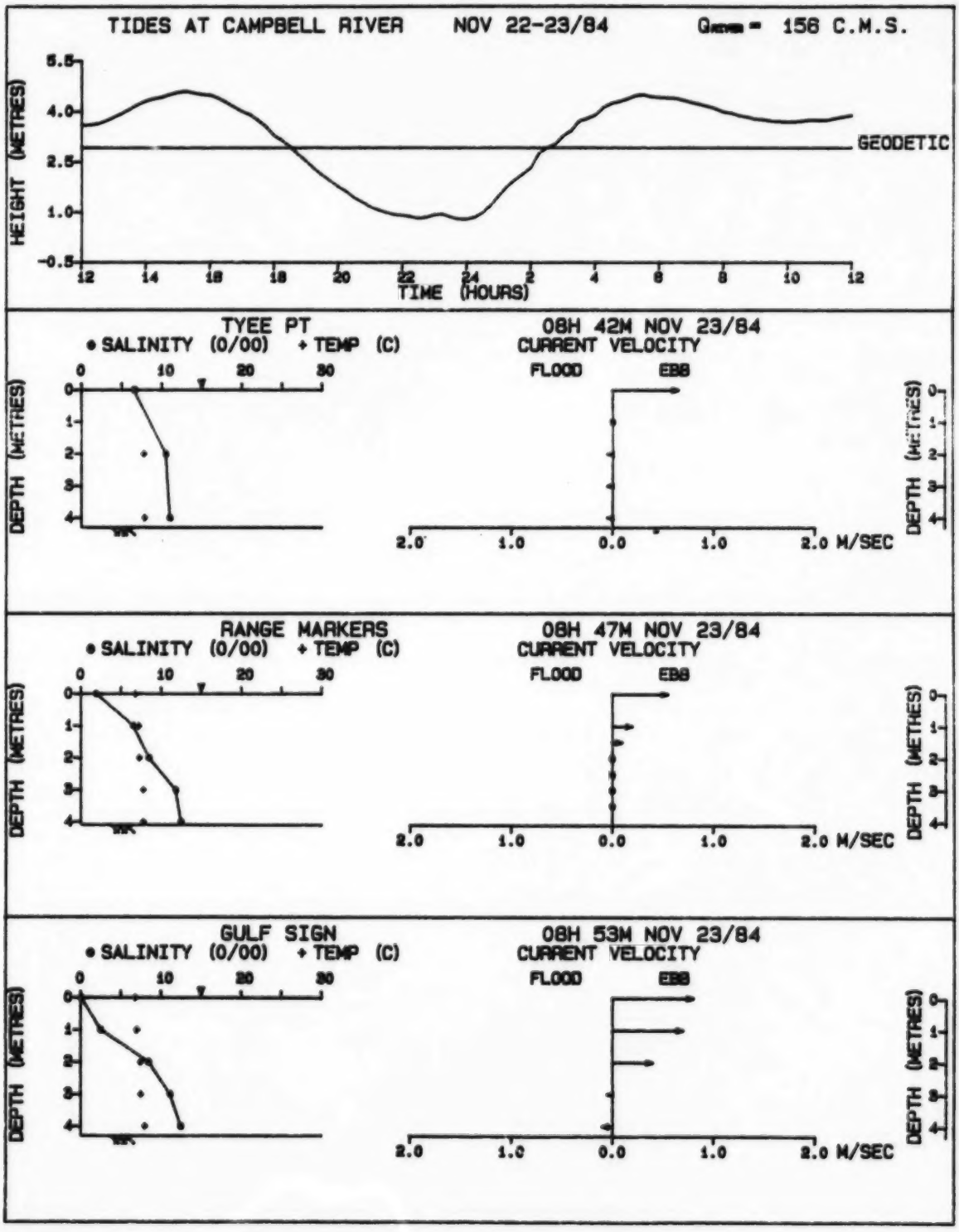
LOCATION	TIME (PST)	DEPTH (M)	SALINITY* (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
TYEE PT	08H 42M	.0	6.5	6.8	.65	E
		1.0			.00	
		2.0	10.5	7.8	.05	F
		3.0			.05	F
		4.0	11.0	7.9	.05	F
RANGE MARKERS	08H 47M	.0	1.9	6.8	.55	E
		1.0	6.5	7.2	.20	E
		1.5			.10	E
		2.0	8.5	7.3	.00	
		2.5			.00	
		3.0	11.8	7.8	.00	
		3.5			.00	
		4.0	12.5	7.8		
GULF SIGN	08H 53M	.0	.1	6.8	.80	E
		1.0	2.5	7.0	.70	E
		2.0	8.5	7.5	.40	E
		3.0	11.2	7.5	.05	F
		4.0	12.5	8.0	.10	F
FISH STN WHARF	08H 58M	.0	.4	6.8	.80	E
		1.0	.5	6.8	.80	E
		2.0	2.8	6.8	.60	E
		3.0	11.2	7.5	.10	F
		4.0	12.5	7.8	.10	F
NBM MAIN	09H 03M	.0	.0	6.8	.60	E
		1.0	.1	6.8	.60	E
		2.0	.1	6.8	.60	E
		3.0	1.1	6.8	.35	E
		3.5			.05	F
		4.0	11.8	7.6	.15	F
FISH BARGE MAIN	09H 07M	.0	.0	6.6	.60	E
		1.0	.0	6.6	.60	E
		2.0	.0	6.6	.55	E
		3.0	.0	6.6	.45	E
SBM MAIN	09H 12M	.0	.0	6.6	.75	E
		2.0	.0	6.6	.70	E
		3.0	.0	6.6	.50	E

NOV 23/84

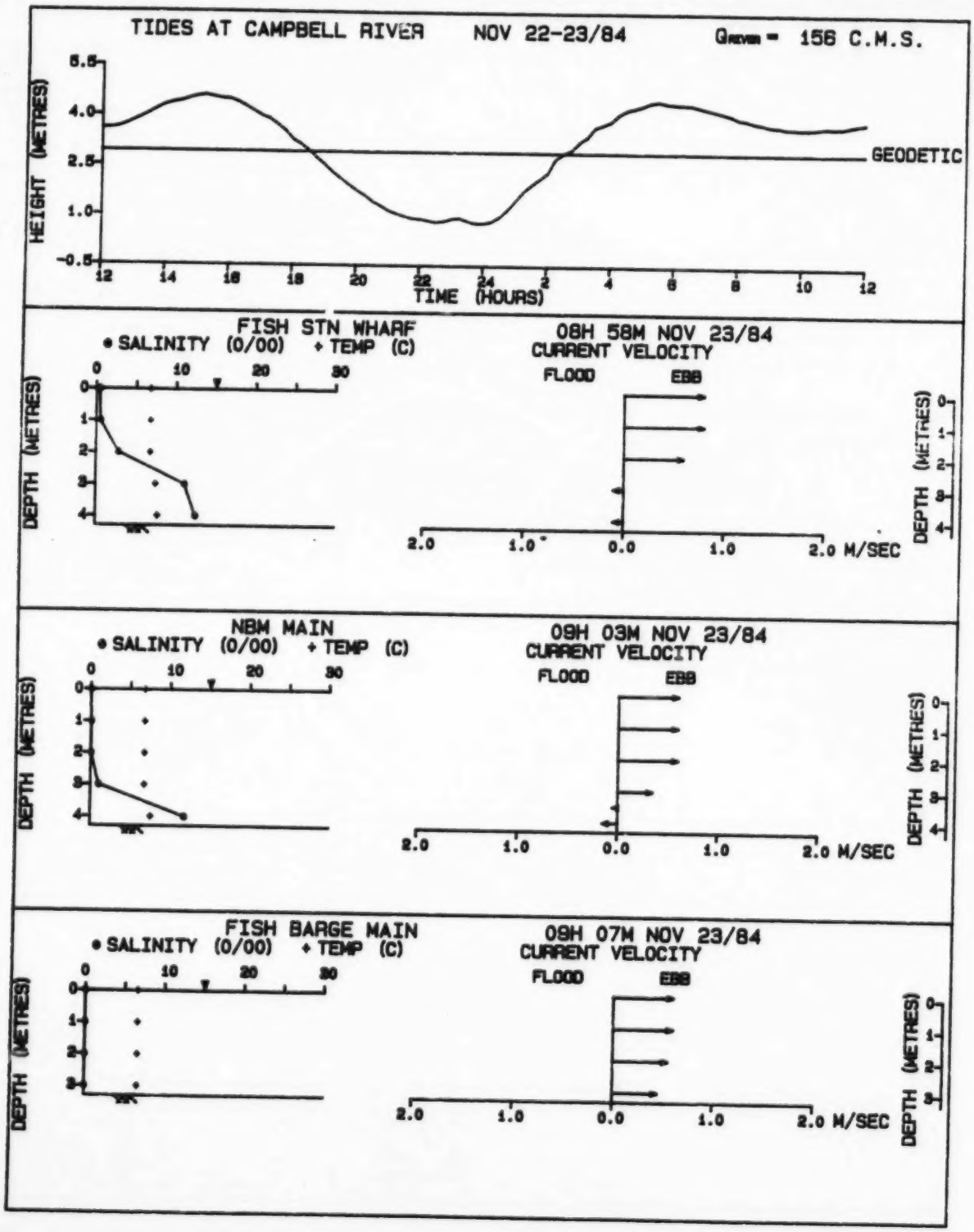
RIVER DISCHARGE = 156 CU.M/SEC

LOCATION	TIME (PST)	DEPTH (M)	SALINITY* (0/00)	TEMPERATURE (C)	SPEED (M/S)	FLOOD OR EBB
SBS (I2)	09H 15M	.0	.3	6.6		
		1.0	.4	6.6		
		2.0	.7	6.6		
GRASS	09H 22M	.0	2.2	6.3		
		1.0	2.8	6.3		
		2.0	9.2	6.8		
LOG BASIN	09H 33M	.0	.4	6.4		
		1.0	5.9	6.6		
		2.0	9.2	6.9		
		3.0	12.5	7.5		
		4.0	13.2	7.7		
		5.0	13.2	7.8		
		6.0	13.2	7.9		
		7.0	13.2	7.9		
MOTHER RAMP	09H 40M	.0	2.8	6.6		
		1.0	6.5	6.7		
		2.0	9.2	6.9		
		3.0	11.8	7.4		
		4.0	13.2	7.9		
ISL#3 PULLEY	09H 45M	.0	1.6	6.6		
		1.0	5.3	6.8		
		2.0	13.9	7.8		
NBM	09H 55M	.0	.8	6.6		
		1.0	.8	6.8		
		2.0	.8	6.8		
NBS	09H 57M	.0	.5	6.5		
		1.0	.8	6.6		
		2.0	1.3	6.7		
		3.0	12.5	7.6		

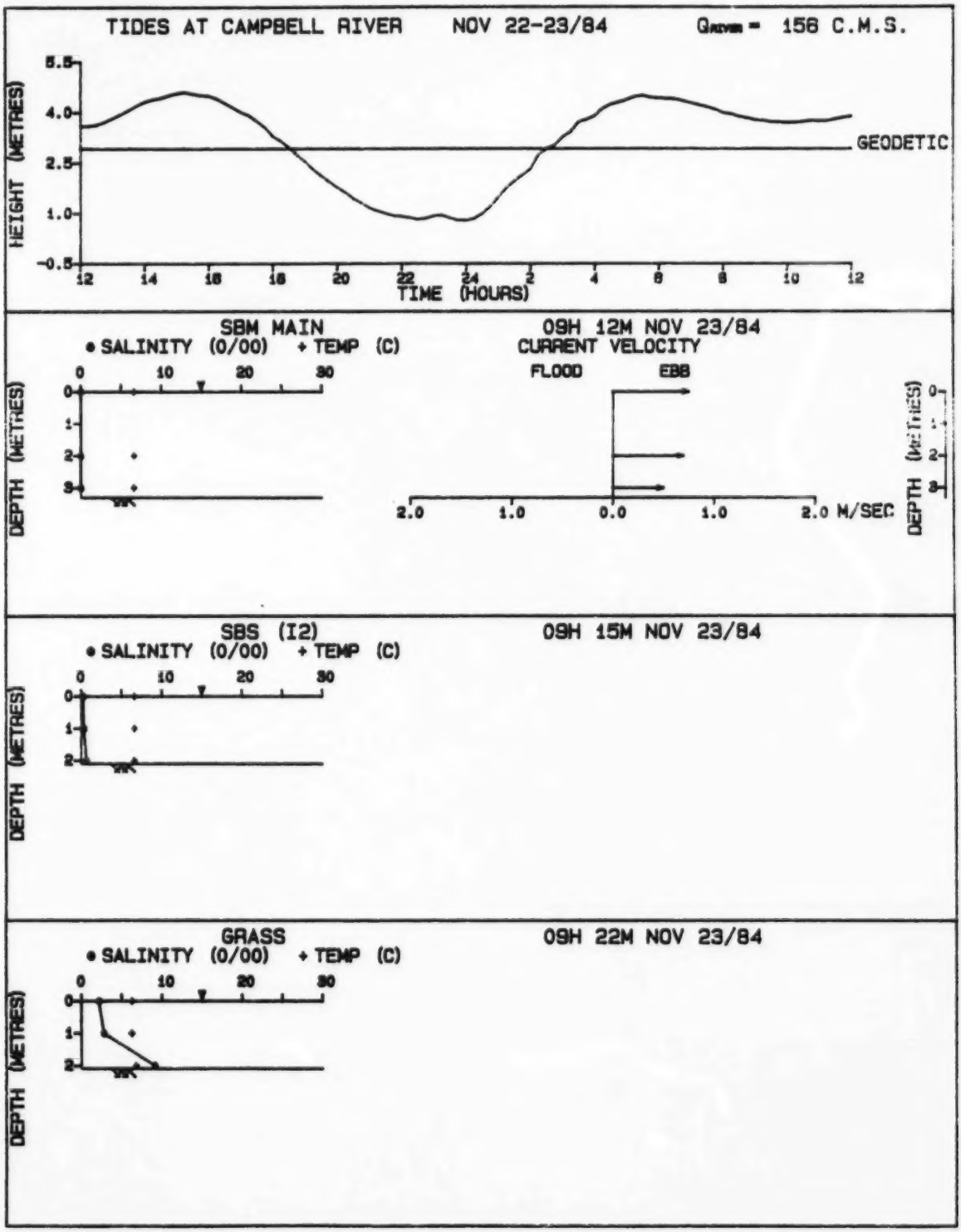
SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



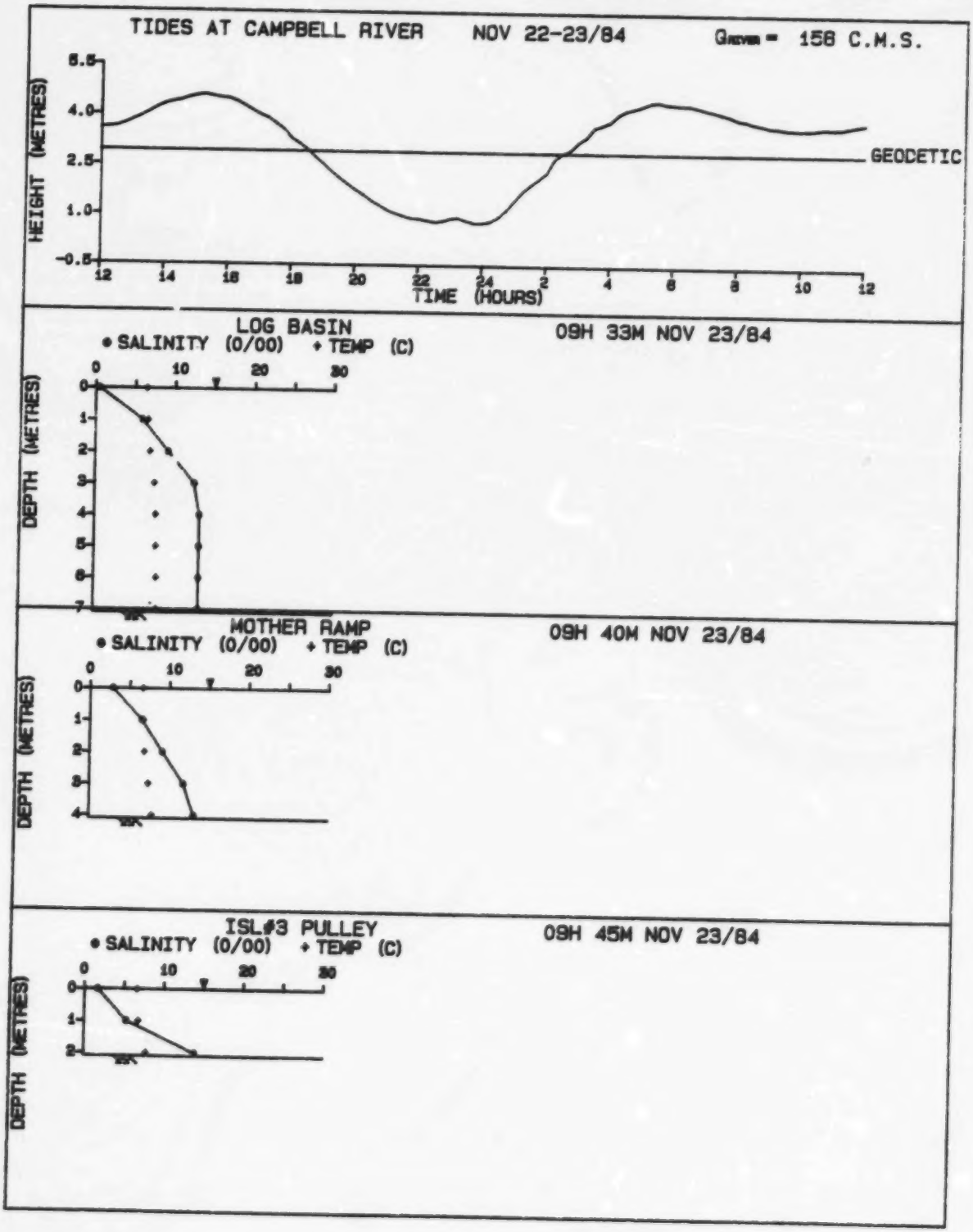
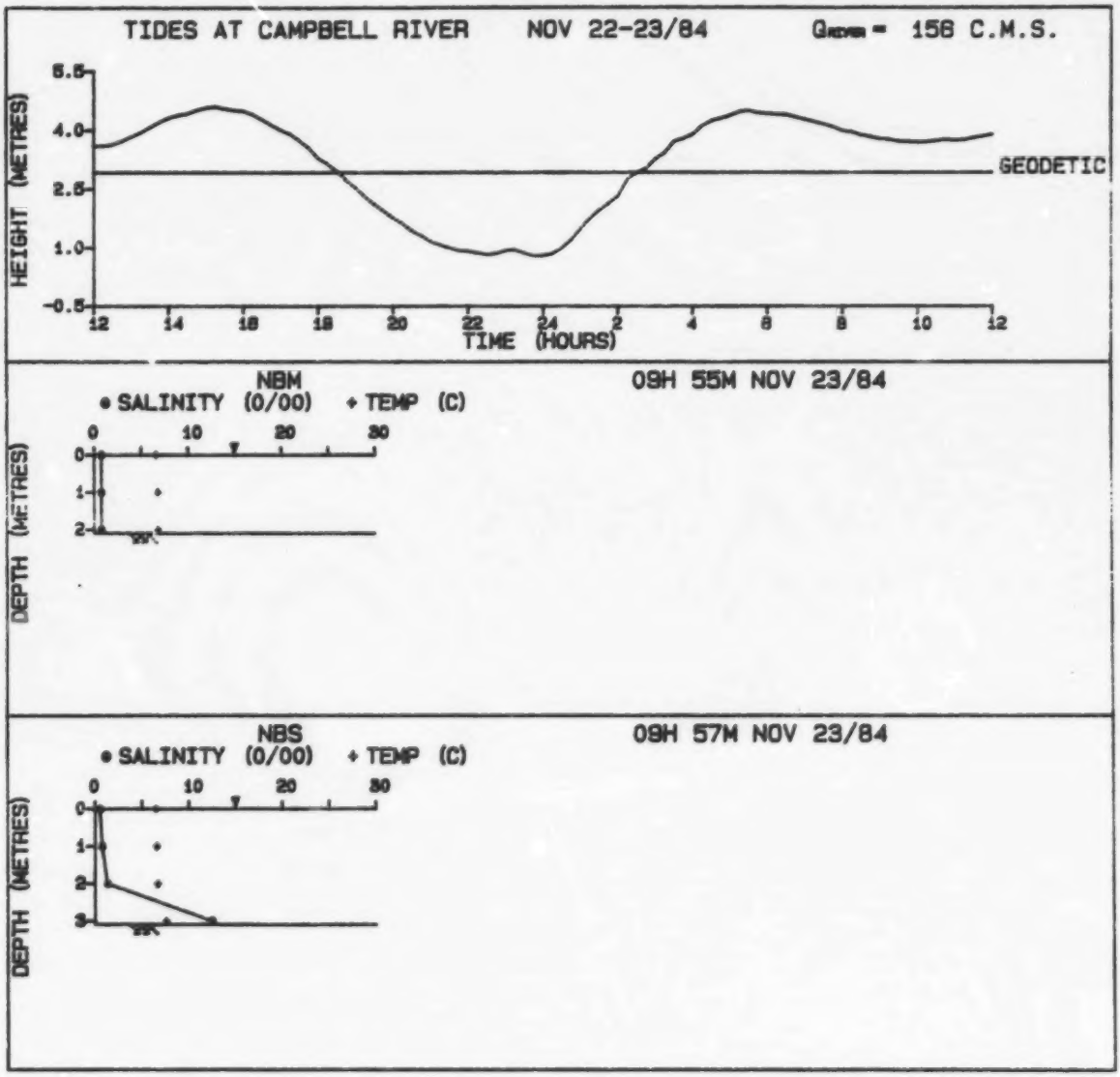
SALINITY* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER



SALINITY,* TEMPERATURE & CURRENT MEASUREMENTS AT CAMPBELL RIVER